CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, January 17, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Jan.				
19	Wharf	New Orleans, La	S	12-27
*23	Sewer system	Orangeburg, S. C.	S. & B. S.	1-17
*24	Traveling crane	W. Point, N.Y.	S. & B. S.	1-10
26	Crematory	Pensacola, Fla	S. & B. S.	1- 3
Feb.				
1	Ordnance	Dover, N. J	P., S. & B. S.	1-10
*4	Sewers	Cape Girardeau, Mo	S. & B. S.	1- 3
4	Electric Railway	Bisbee, Ariz	P., S. & B. S.	12-27
5	Boiler equipment	Phila., Pa	S. & B. S.	1-17
9	Generator set	Philadelphia, Pa.	S	1-10
Mar.				
*1	Pipe, etc.	Winnipeg, Man	S. & B. S.	1- 3
18	Sewers	Burlington, Iowa	P., S. & B. S.	1-10

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work. Place.	On file. See issue
Jan. 18.	Electric light plant, Panama	Jan. 10
Jan. 21.	Electrical fixtures, Boston, Mass	Jan. 17
Jan. 21.	Lighting, Peoria, Ill	Jan. 17
Jan. 22.	Supplies, Washington, D. C	Jan. 17
Jan. 23.	Fixtures, Ft. Bayard, N. Mex	Jan. 17
Jan. 25.	Power plant, St. Louis, Mo	Jan. 17
Jan. 30.	Power building, Washington, D. C	Jan. 3
	Advertised, Eng. News, Jan. 3 to 24.	
Jan. 31.	Street lighting, Halifax, N. S	Jan. 17
Feb. 1.	Gas works, Richmond, Va	Dec. 6
	Advertised, Eng. News, Dec. 6.	
Feb. 20.	Transmission lines, Chicago, Ill	Jan. 17
Mar. 7.	Lighting, Natchez, Miss	Dec. 20
	Advertised, Eng. News, Dec. 20 and 27.	

BRIDGES.

Jan. 21.	Steel bridge, Bluevale, Ont	Jan. 10
Jan. 24.	Drawbridge, Boston, Mass	Jan. 17
Jan. 25.	Bridge, Cincinnati, Ohio	Jan. 10
Jan. 31.	Iron bridge, Hallock, Minn	Jan. 10
Jan. 30.	Bridge, Des Moines, Iowa	Jan. 17
Feb. 5.	Bridge, Cohoes, N. Y	Jan. 17
	Advertised, Eng. News, Jan. 17 and 24.	
Feb. 5.	Bridges, Salinas, Cal	Jan. 3
Feb. 8.	Bridges, Hammond, Ind	Jan. 3
Feb. 14.	Steel bridge, Cullman, Ala	Jan. 10
	Advertised, Eng. News, Jan. 10.	
Feb. 14.	Steel bridge, Waldo, Ohio	Jan. 17

BUILDINGS.

Jan. 23.	Roof frame, Washington, D. C	Jan. 10
	Advertised, Eng. News, Jan. 10 and 17.	
Jan. 28.	Station-house, New York, N. Y	Jan. 17
Jan. 28.	Ventilating, etc., New York, N. Y	Jan. 17
Jan. 30.	Marble base, New York, N. Y	Jan. 17
Jan. 30.	Building, Boston, Mass	Jan. 17
Jan. 30.	Post-office, Providence, R. I	Jan. 3
	Advertised, Eng. News, Jan. 3 and 10.	
Jan. 30.	Marble work, Washington, D. C	Jan. 3
	Advertised, Eng. News, Jan. 3 to 24.	
Jan. 31.	Heating, Crawfordville, Ind	Dec. 27
Feb. 1.	Leprosy hospital, Hawaii	Dec. 13
	Advertised, Eng. News, Dec. 13 and 20.	
Feb. 1.	Factory, Kokomo, Ind	Dec. 6
Feb. 4.	Court-house, New Orleans, La	Dec. 27
Feb. 4.	Storehouse, Ft. Monroe, Va	Jan. 10
	Advertised, Eng. News, Jan. 10 and 17.	
Feb. 5.	School, South Bend, Ind	Jan. 17
Feb. 8.	Library, University, N. Dak	Nov. 15
Feb. 11.	Barracks, Fort Hancock, N. J	Jan. 10
	Advertised, Eng. News, Jan. 10 to 31.	
Apr. 15.	Plans, Ottawa, Ont	Dec. 20

WATER SUPPLY AND IRRIGATION.

Jan. 18.	Hydrants, c.-i. pipe, etc., Juneau, Wis.	Jan. 10
Jan. 18.	Drilling well, Juneau, Wis	Jan. 10
Jan. 19.	Pumping motor, Marshfield, Wis	Jan. 10
Jan. 22.	Reservoir embankment, Granite, Colo	Dec. 20
	Advertised, Eng. News, Dec. 20 to Jan. 3.	
Jan. 22.	Pipe, Brooklyn, N. Y	Jan. 17
Jan. 22.	Pump, Buffalo, N. Y	Jan. 17
Jan. 22.	Hydrants, etc., Oswego, Kan	Jan. 17
Jan. 23.	Pipe, New Orleans, La	Nov. 15
	Advertised, Eng. News, Nov. 15 to Jan. 17.	
Jan. 23.	Water-works, Corning, N. Y	Jan. 3
	Advertised, Eng. News, Jan. 3 and 10.	
Jan. 24.	Steel bars, Mitchell, Neb	Dec. 13
	Advertised, Eng. News, Dec. 13 to Jan. 3.	
Jan. 25.	Pipe valves, Minneapolis, Minn	Jan. 17
Jan. 27.	Ditch, Mattoon, Ill	Jan. 17
Jan. 28.	Pump, Asbury Park, N. J	Jan. 17
	Advertised, Eng. News, Jan. 17 and 24.	
Jan. 28.	Pumping engines, Muskegon, Mich	Dec. 20
Jan. 29.	Boilers (Garbage), New York, N. Y	Jan. 17
Feb. 20.	Water meters, Mexico	Jan. 10
Feb. 2.	Pipe, Washington, D. C	Jan. 17
	Advertised, Eng. News, Jan. 17 and 24.	
Feb. 4.	Boilers, Jacksonville, Fla	Jan. 17
Feb. 5.	Boiler equipment, Philadelphia, Pa	Jan. 17
Feb. 19.	Reservoirs, etc., Oswego, Kan	Jan. 17
Feb. 27.	Dike, Crawford, Neb	Jan. 17
	Advertised, Eng. News, Jan. 17 to Feb. 20.	
Mar. 1.	Pipe and specials, Winnipeg, Man	Dec. 20
	Advertised, Eng. News, Dec. 20 to Feb. 21.	
Mar. 5.	Canals and ditches, Washington, D. C.	Jan. 10
	Advertised, Eng. News, Jan. 10 to Feb. 14.	
Mar. 12.	Canals, Huntley, Mont	Jan. 17
	Advertised, Eng. News, Jan. 17 to Feb. 7.	

SEWERAGE.

Jan. 21.	Sewer, Des Moines, Iowa	Jan. 10
Jan. 21.	Sewers, Wichita, Kan	Dec. 13
	Advertised, Eng. Neks, Dec. 13 to 27.	
Jan. 22.	Sewers, Cedar Falls, Iowa	Dec. 20
	Advertised, Eng. News, Dec. 20 and 27.	
Jan. 22.	Sewers, Van Buren, Ark	Dec. 27
	Advertised, Eng. News, Dec. 27 and Jan. 3.	
Jan. 22.	Sewer system, New York, N. Y	Jan. 10
	Advertised, Eng. News, Jan. 10 and 17.	
Jan. 22.	Sewers, Streator, Ill.	Jan. 17
Jan. 23.	Sewers, Orangeburg, S. C	Dec. 27
	Advertised, Eng. News, Dec. 27 to Jan. 17.	
Jan. 24.	Sewers, Cincinnati, Ohio	Jan. 10
Jan. 25.	Sewers, Cincinnati, Ohio	Jan. 10
Jan. 25.	Sewer material, Minneapolis, Minn	Jan. 17
Jan. 26.	Sewers, Asbury Park, N. J	Jan. 17
	Advertised, Eng. News, Jan. 17 and 24.	
Jan. 26.	Sewer, Hart, Mich	Jan. 17
Jan. 26.	Drains, Greenfield, Ind	Jan. 3
Jan. 28.	Sewer, New York, N. Y	Jan. 17
Jan. 30.	Sewer system, St. Marys, Ohio	Jan. 17
Jan. 30.	Sewers, Norristown, Pa	Jan. 10
Feb. 1.	Sewer, Marion, Ohio	Jan. 17
Feb. 4.	Sewer, Cape Girardeau, Mo	Dec. 20
	Advertised, Eng. News, Dec. 20 and 27.	
Mar. 18.	Sewers, Burlington, Iowa	Dec. 27
	Advertised, Eng. News, Dec. 27.	

REGARDING NEW PROJECTS

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

ADDRESS THE

Construction News Department

STREETS AND ROADS.

Jan. 21.	Grading, Montgomery, Ala	Jan. 10
Jan. 21.	Paving, Albany, N. Y	Jan. 17
Jan. 21.	Dirt removal and supplies, Albany, N. Y.	Jan. 17
Jan. 22.	Paving, Buffalo, N. Y	Jan. 22
Jan. 23.	Cement work, Chicago, Ill	Jan. 10
Jan. 24.	Grading, etc., Indianapolis, Ind	Jan. 17
Jan. 25.	Asphalt paving, Cincinnati, Ohio	Jan. 17
Jan. 25.	Paving material, Minneapolis, Minn	Jan. 17
Jan. 28.	Grading, etc., East St. Louis, Ill	Jan. 17
Jan. 29.	Brick paving, Bartlesville, Ind. T	Jan. 17
Jan. 29.	Cement sidewalk, Bessemer, Ala	Jan. 17
Jan. 29.	Paving, Bartlesville, Ind. T	Jan. 3
Jan. 31.	Paving, Cincinnati, Ohio	Jan. 17
Feb. 1.	Gravel road, Princeton, Ind	Jan. 17
Feb. 5.	Macadamizing, Bloomfield, Ind	Jan. 17
Feb. 5.	Macadamizing, Somerville, N. J	Jan. 10
	Advertised, Eng. News, Jan. 10 to 24.	
Feb. 6.	Gravel road, Logansport, Ind	Jan. 17
Feb. 7.	Brick paving, Denison, Tex	Jan. 17
Feb. 12.	Macadam curb, Bogota, N. J	Jan. 10
	Advertised, Eng. News, Jan. 10 to 24.	
Mar. 1.	Improving streets, Corvallis, Ore	Jan. 10
Mar. 8.	Curbs and gutters, Valparaiso, Ind	Jan. 17

MISCELLANEOUS CONTRACTS.

At once.	Plans, etc., swimming pool, Asbury Park, N. J	Jan. 17
	Advertised, Eng. News, Jan. 17 and 24.	
Jan. 17.	Wharf, Key West, Fla	Dec. 6
	Advertised, Eng. News, Dec. 6 to Jan. 3.	
Jan. 18.	Engineering supplies, Panama	Jan. 10
Jan. 19.	Wharf, New Orleans, La	Dec. 27
Jan. 21.	Dump scows, Cleveland, Ohio	Dec. 20
	Advertised, Eng. News, Dec. 20 to Jan. 10.	
Jan. 21.	Dredging, Sault Ste. Marie, Ont	Jan. 10
Jan. 22.	Cable cars, engines, Washington, D. C.	Jan. 3
Jan. 23.	Telegraph, telephone supplies, New York.	Jan. 10
Jan. 23.	Bulkhead, New York, N. Y	Jan. 10
Jan. 23.	Bulkhead, New York, N. Y	Jan. 17
Jan. 24.	Traveling crane, West Point, N. Y	Jan. 3
	Advertised, Eng. News, Jan. 3 to 17.	
Jan. 24.	Jetty, New York, N. Y	Jan. 10
Jan. 25.	Garbage disposal, St. Louis, Mo	Jan. 3
Jan. 26.	Crematory, Pensacola, Fla	Jan. 3
Jan. 28.	Dredging, New York, N. Y	Jan. 17
Jan. 29.	Engineering supplies, Panama	Jan. 17
Jan. 29.	Piers, North Chicago, Ill	Dec. 13
Jan. 31.	Bulkhead, New York, N. Y	Jan. 10
Jan. 31.	Ry. roadbed, Cairo & Thebes Ry	Jan. 17
	Advertised, Eng. News, Jan. 17 and 24.	
Feb. 1.	Steam roller, Holyoke, Mass	Jan. 17
	Advertised, Eng. News, Jan. 17 and 24.	
Feb. 1.	Canal, Servia (Foreign)	Jan. 17
Feb. 1.	Ordnance, Dover, N. J	Jan. 10
Feb. 4.	Grading electric railway, Bisbee, Ariz	Dec. 27
Feb. 5.	Naval supplies, Washington, D. C	Jan. 3
Feb. 5.	Naval supplies, San Francisco, Cal.	Jan. 3
Feb. 6.	Tug, Washington, D. C	Jan. 10
Feb. 8.	Spillway, San Francisco, Cal	Jan. 10
	Advertised, Eng. News, Jan. 10 to 31.	
Feb. 11.	Railway, Spain (Foreign)	Dec. 6
Feb. 11.	Undergrade crossing, Williamsport, Pa.	Jan. 17
	Advertised, Eng. News, Jan. 17.	
Feb. 12.	Lock gate, Chattanooga, Tenn	Jan. 17
	Advertised, Eng. News, Jan. 17 to 31.	
Feb. 13.	Dredging, New York, N. Y	Jan. 17
	Advertised, Eng. News, Jan. 17 to Feb. 7.	
Feb. 13.	Ry. construction, Temiskaming & Northern Ohio Ry	Jan. 17
Feb. 14.	Ry. construction, Trans-Continental Ry.	Jan. 17
Feb. 15.	Lock and dam, Mobile, Ala	Jan. 17
	Advertised, Eng. News, Jan. 17 to Feb. 7.	
Feb. 19.	Hydraulic dredge, Toronto, Ont	Jan. 17
	Advertised, Eng. News, Jan. 17 to 31.	
Mar. 18.	Tunnel, New Zealand (Foreign)	Sept. 13
	Advertised, Eng. News, Sept. 13 to Mar. 14.	
Apr. 2.	Reclamation work, British India (Foreign).	Jan. 17
Apr. 12.	Ditches, Brookings, S. Dak	Oct. 13

CIVIL SERVICE EXAMINATIONS.

Jan. 17.	Marine Engineers, New York, N. Y	Jan. 3
Jan. 23.	Engineer & Plumber, Fort Omaha, Neb.	Jan. 3
Jan. 29.	Computer, Washington, D. C	Jan. 3
Jan. 29.	Arch. Draftsman, New York, N. Y	Jan. 17
Jan. 26.	Arch. Draftsman, Albany, N. Y	Jan. 17
Jan. 26.	Bridge Designer, Albany, N. Y	Jan. 17
Feb. 6.	Examiner of Surveys, Washington, D. C.	Jan. 17
Feb. 18.	Marine Engineer, San Francisco, Cal.	Jan. 17
Feb. 20.	Electrician, San Francisco, Cal	Jan. 17

Proposed Work

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Address, **Construction News Department**

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

APALACHICOLA NORTHERN. — This company, which last year built 20 miles of road between River Junction, Fla., and Apalachicola, has given contracts to the MOREY ENGINEERING & CONSTRUCTION CO., Chemical Bldg., St. Louis, for building the remaining 59 miles between these points. Grading has been completed from Apalachicola to St. Joseph's Bay, 19 miles. William A. Hunick, is Ch. Engr. of the Construction Co.

ARKANSAS PACIFIC.—George D. Locke, Pres., St. Louis, Mo., states that surveys will be completed about Feb. 1 for this road from Denison, Tex., to Memphis, Tenn., 469 miles, and that contracts will be let during February for the grading.

ATLANTIC, BIRMINGHAM AND ATLANTA.—A report from Bessemer, Ala., states that Kelton & Collier, of St. Louis, who secured the contract for the rock and cement work on the Atlantic, Birmingham & Atlanta Railroad, in process of construction in this territory, and who have been at work for some time, a few days ago surrendered the contract. HOTZYELL & CO., of Helena, Ala., have taken the contract surrendered, and will push the work to completion. See issue of Jan. 10.

BICKLETON NORTHERN.—Incorporated in Washington to build a railroad from the point where Alder Creek empties into the Columbia River to Bickleton, Klickitat County, about 25 miles. Capital stock, $250,000. Incoporators: George W. McRedy, S. A. Rossier, R. E. Jackson, C. E. Flower and Stephen Matson. Office, Bickleton, Wash.

BIRMINGHAM, COLUMBUS & ST. ANDREWS BAY.—LEMUEL E. MILLER, Real Estate Trust Bldg., Philadelphia, has contract for building from Warsaw, Fla., to St. Andrew's Bay, 38 miles. Surveys are also being made for an extension from the northern terminus at Chipley, Fla., to Columbus, Ga., 150 miles. W. M. Gordon is Pres., Columbus Ga.

BOSTON & MAINE.—The company on Jan. 10 completed arrangements to raise $3,000,000 cash for carrying on contemplated improvements on various parts of the system, purchasing new equipment, etc. To a syndicate composed of Kidder, Peabody & Co., R. L. Day & Co., Estabrook & Co., and F. S. Mosely & Co., the railroad gave 5 per cent. one-year notes, which will be taken up in three instalments. The first instalment of $1,000,000 will be paid to the company on Jan. 15, the second $1,000,000 one month later, and the third $1,000,000 on March 15. H. Bissell is Ch. Engr.; Charles N. Chevalier is Pur. Agt., Boston.

BURR'S FERRY, BROWNDEL & CHESTER.—P. G. Omohondro, Ch. Engr., Beaumont, Tex., advises us that contract for building from Aldridge to Browndel will be let at once. Company has completed surveys from Rockland, Tex., east via Browndel to Burkville, 52 miles. Right-of-way is secured. Work will be of a rough nature. The road has been constructed from Rockland to Aldridge, 7.7 miles. This line is projected from Chester, in Tyler County, Tex., east via Rockland and Browndel to Burr's Ferry on the Sabine River, about 80 miles. It is also proposed to extend line into the timber forests of Louisiana in the direction of Alexandria. John H. Kirky is Pres., Houston, Tex.

CACHE VALLEY R. R.—Contract has been awarded to the CULVER CONSTRUCTION CO., of Sedgwick, Ark., for an extension of this company's line from Walnut Ridge, Ark., east to Paragould, 28 miles. The company has also projected a line from Newport, Ark., southeast to the State line, 80 miles. E. W. Culver, Ark., is Pres.

CAIRO & KANAWHA VALLEY.—S. A. Moore, Gen. Mgr., Philippi, W. Va., states that the proposed extension of this road from MacFarland to Smithville, W. Va., will be eight miles long. Construction has not yet begun.

CAIRO & THEBES.—Bids are asked until 10 a. m., Jan. 31, for construction of five miles of roadbed between Thebes Bridge and the C. & E. I. R. R. crossing. J. L. Armstrong is Ch. Engr., Cairo, Ill. (Advertised, Engineering News.)

CALIENTE & PIOCHE.—We are offcially informed that no contracts have yet been let for building this railway in Nevada. It will be about 32 miles in length. Surveys are made and right-of-way is secured. Capital is ready for construction. J. Ross Clark is Pres., and E. G. Tilton is Ch. Engr., both at Los Angeles, Cal.

CHESTERFIELD & LANCASTER.—This company which last year built 15 miles of road to Pageland, S. C., has given contracts to E. H. PAGE & SON for extending the road from that place to Lynches River, an additional five miles. A. G. Page, Cheraw, S. C., is Secy. and Treas. and Supt.

CHICAGO & NORTHWESTERN.—The following is a statement of track laid on branches and extensions of this system during the past year: The line from Manitowoc to Green Bay, Wis., a distance of 36.14 miles, has been completed, a portion of the track having been laid in 1905. Track has been laid on the branch from Duck Creek to Gillette, Wis., 28.66, and on the line from Pulaski to Eland Junction, Wis., 48.78 miles.

On the Pierre, Rapid City & Northwestern, which is under construction from Fort Pierre to Rapid City, S. Dak., 166 miles, track has been laid from Fort Pierre west 49 miles, and from Rapid City east 43.32 miles, leaving about 74 miles to complete.

The Chicago & State Line and the Milwaukee & State Line railways, under the charters of which the new third and fourth tracks between Lake Bluff and St. Francis, Wis., 50.24 miles, have been built, are completed. A portion of this track was laid in 1905. On the extension from Bonesteel to Gregory, S. Dak., 26 miles, 11.76 miles have been laid.

The Wyoming & Northwestern has been extended from the Powder River west to Lander, Wyo., 106.89 miles. E. C. Carter is Ch. Engr., Chicago.

COAL RIVER RY.—Company has awarded a contract to CARPENTER BROS., of Clifton Forge, Va., to build an extension from Lick Creek to Racine, seven miles, and also from Cobbs to Seng Camp, 36 miles. C. K. McDermott is Gen. Supt., St. Albans, W. Va.

COFFEYVILLE & MEMPHIS.—E. C. Kiddoo, Secy., at Coffeyville, Kan., informs us that surveys are now under way for company's line which is to be built from Coffeyville to Memphis, Tenn., 400 miles. Right-of-way and capital are partly secured. Contracts will be let about March 1. J. I. Hill is Pres., Coffeyville. As previously noted, company was incorporated in Oklahoma, with $500,000 capital, to build a line from Coffeyville, Kan., on the Atchison, Topeka & Santa Fe, the Missouri, Kansas & Texas, and the Missouri Pacific, southeast through Oklahoma via Centralia and Afton to the Arkansas State line, thence in Arkansas through the counties of Benton, Madison, Newton, Searcy, Vanburen, Cleburne, White, Prairie, Monroe, St. Francis and Crittenden to the Mississippi River, about 375 miles, with a branch 150 miles long southwest from a point on the main line to Shawnee, Okla.

CUMBERLAND RIVER & NASHVILLE.—Company is making surveys for a proposed line from Corbin, Ky., to the Tennessee state line at a point southwest of Albany, Ky., 95 miles. The section from Burnside, Ky., to Monticello, has been located and is soon to be under construction. S. Woodward, Carlisle Bldg., Cincinnati, Ohio, is Pres.

DAYTONA, DE LAND & ST. JOHNS RIVER.—We are officially advised that contracts will be let for building this company's line from Daytona to De Land and St. Johns River connection, 27 miles, this spring. Right-of-way is partly secured. Capital is now ready. Surveys are made. Motive power will be steam for freight service and motor for passenger service. W. J. Morgan is Pres., and D. D. Rogers, Ch. Engr., at Daytona, Fla.

EASTERN, SIERRA & PACIFIC.—The name of the Sierra Pacific has been changed to the Eastern, Sierra & Pacific, and the capital stock has been increased from $5,000,000 to $50,000,000. An issue of 40-year 5 per cent. construction bonds has been authorized. Otto E. Bashore, Pres., advises us that "this was done because of amalgamation with certain existing Eastern lines, and further to avoid confusion with the Southern Pacific R. R. Co., the initials of our former name being the same as theirs." See Sierra Pacific Ry.

GARDEN CITY, TRINIDAD & NORTHEASTERN.—This company has applied for a charter in Kansas to build a railroad from Garden City northeast, to a connection with the Union Pacific, either at Ellis or Hays City, and from Garden City west to Trinidad, Colo., a total distance of about 400 miles. Incorporators: McBeth, George W. Filnup, G. L. Miller, J. V. Killion, W. M. Kinnison and George T. Inge. Headquarters, Garden City, Kan.

GULF, COLORADO & SANTA FE.—C. F. W. Felt, Ch. Engr., Galveston, informs us that only part of the preliminary survey has been made for an extension from Center, Tex., northward. This work has not yet been authorized.

ILLINOIS CENTRAL.—The following is a statement of track laid during the past year on branches and extensions of the Illinois Central and Yazoo & Mississippi Valley: From Woodstock to Leewood, Tenn., 7½ miles; from Haleyville, Ala., west, three miles; from Zeigler to near Herrin, Ill., 2.2 miles; from Wickliffe to Winford, Ky., 2.24 miles; from Jackson, Tenn., southeast toward a connection with the Mobile & Ohio, 1.78 miles; on the Indianapolis Southern, from Unionville to Switz City, Ind., 41.59 miles. On the Yazoo & Mississippi Valley, from Philipp towards Charleston, Miss., 7.33 miles; from end of track ten miles south of Silver City, Miss., towards Kelso, 18.54 miles, and from Kelso towards Silver City, 2.99 miles; extension of branch from Helm northwest, .56 miles; from Blue Lake to Webb, Miss., 3.56 miles; from Leland, Miss., southwest, 2.17 miles; from Stoneville, Miss., east, 4.1 miles. The line from Haleyville to Corinth, Miss., is under construction and will be 80.23 miles long; the line from Jackson, Tenn., to a connection with the Mobile & Ohio will be three miles long, and the line from Philipp to Charleston, Miss., will be 26.18 miles in length. A new line is being built from Etter, Tenn., to Lakeview, Miss., a distance of 6.73 miles. A. S. Baldwin is Ch. Engr., Chicago.

LAWTON, WICHITA FALLS & NORTHWESTERN.—J. M. Bellamy, Pres., Lawton, Okla., advises us that contracts will be let by the company about March 1 for building its line between Lawton, Okla., and Wichita Falls, Tex., 38 miles. Surveys have been made and right-of-way and capital secured.

NEVADA NORTHERN.—This road, which has been completed from Cobre to Ely, Nev., 140.73 miles, proposes to build the following branches: From Ely to Cobre mines, seven miles; from Smelter to Smelter Junction, Nev., nine miles; from Eureka mine to Chamberlain-Ely mine, 3½ miles. G. L. Dillman is Ch. Engr., Cobre, Nev.

NORFOLK & SOUTHERN.—Track was laid during 1906 on the lines now merged into the Norfolk & Southern system as follows: From Mackeys Ferry to Creswell, N. C., 15 miles; from New Bern (Neuse Junction) to Chocowinity, N. C., 28½ miles; from Chocowinity to Washington, N. C., 3½ miles; from Knightdale to Zebulon, eight miles. Work is in progress on an extension of what was formerly known as the Raleigh & Pamlico Sound from Zebulon to Chocowinity, 75 miles, with a branch from Farmville to Snow Hill, N. C., eleven miles. Other extensions are being built as follows: From Bayboro to Oriental, eleven miles; from Creswell to Columbia, ten miles; from New Bern to Trent River, ten miles. Extensions, it is reported, are proposed from Bishops Cross via Pinetown to Oldford, 22 miles, and from Bayboro to Pamlico Sound, 25 miles. The line between Zebulon and Chocowinity will be completed by July 1 and it is expected to complete an extension between Raleigh and Pamlico Junction, 2½ miles, by March 1. A. M. Hawkins is Supt., Washington, D. C.

OKLAHOMA, TEXAS & WESTERN.—Company has been chartered to build a road to run from Clinton, Okla., to Canadian, Tex., a distance of 80 miles, of which 50 miles will be in Oklahoma and 30 miles in Texas. Surveys have not been run yet nor right-of-way obtained. Construction is to begin as soon as arrangements are completed for financing the road. H. D. Cox is Pres., Cheyenne, Okla.; R. V. Converse, Secy. and Treas., Cheyenne; D. D. Fitzgerald, Ch. Engr., 80 Wall St., New York.

OZARK TRANSIT CO.—J. J. Burns, Pres., 527 Victoria Bldg., St. Louis, Mo., advises us that surveys are under way for company's proposed line. Capital is ready and right-of-way is partly obtained. Company is doing its own work. The Ozark Transit Company was incorporated with a capital of $50,000 to construct a railway from Waynesville, Mo., through the counties of Miller and Cole, touching Jefferson City, and from thence through Texas County, in a southerly direction to Mountain Grove, in Wright County, Mo. The line will be about 100 miles long.

PLANT CITY, ARCADIA & GULF.—DAVIS & BUSHNELL, of Plant City, Fla., have contract, it is said, to build an extension of 20 miles, from Welcome, Fla. F. A. Wheeler is Ch. Engr., at Plant City.

ROCK ISLAND, ARKANSAS & LOUISIANA—(Chicago, Rock Island & Pacific.)—Contracts have been given to the DALHOFF CONSTRUCTION CO., of Little Rock, Ark., for extending the Rock Island, Arkansas & Louisiana line from Alexandria, La., to Eunice, 55 miles.

SIERRA PACIFIC.—Otto E. Bashore, Pres., 326 Main St., Porterville, Cal., advises us that contracts for construction of this railroad will be let probably in March. Motive power will be steam. Proposed route: From a point near and southeast of Walkers Pass, where Eastern connections are arranged for, route runs through Walkers Pass, Porterville, Tulare, Ellisvale, Hanford, Lemoore, Paso Robles, San Luis Obispo to point on Pacific Ocean, which will be the western terminal. From Porterville laterals south to Bakersfield, north to Fresno, east to Globe. Lateral will extend north from Ellisvale to Visalia, Farmersville and Exeter. Length, main line, Walkers Pass to Pacific Ocean, 293 miles. Laterals, Porterville to Bakersfield, 60 miles; Porterville to Fresno, 56 miles; Porterville to Globe, 18 miles. Lateral, Ellisvale to Exeter, 27 miles. Mr. Bashore informs us that "this company is now in the market for everything connected with the construction and operating equipment of the railway, and is also looking for more capital. We wish especially bids on passenger equipment and rails. Contract for grading has already been let. We have placed on the market two issues of our preferred six per cent. debenture stock, each issue being $1,000,000 in amount. The first issue is fully subscribed, and of the second $880,000 is already subscribed. Our total capital is $5,000,000, which will be increased to at least $20,000,000. The estimated cost of the construction of the road will be in round figures $26,000 a mile, using 70-lb. rails, and best quality of material throughout. We will therefore need to secure a little more capital to construct the road. Several cities are endeavoring to secure our shops and are making competitive efforts along this line, but they will probably go to Hanford. There is much difficulty in securing a sufficient or suitable quantity and quality of labor to undertake the construction work, as everyone here is too prosperous to work. Surveys have been made throughout, all right-of-way obtained, many townsites purchased by the company, and now being surveyed and colonized." The other officers are C. B. Reas, Second Vice-Pres., Success; G. A. Avery, Secy., Porterville; J. W. Davis, Treas. G. B. Mitchell is Gen. Mgr., Porterville.

TEMISKAMING & NORTHERN ONTARIO.—Bids are asked by H. W. Pearson, Secy. and Treas., Toronto, Ont., until 5 p. m., Feb. 13, for grading, bridging, tracklaying and ballasting an extension from a point 100 miles north of New Liskeard, north or northwest to a point on the line of the Grand Trunk Pacific, about 40 miles. Plans and specifications may be seen at the office of G. A. McCarthy, Ch. Engr., at North Bay, Ont. The rails, fastenings and ties will be delivered to the contractor at the southerly end of the work (say 100 miles north of New Liskeard).

The Temiskaming & Northern Ontario Ry. Co. will install a telegraph line from North Bay, Ont., to Cobalt, a distance of 105 miles. Bids for the necessary material will be called at once.

TRANS-CONTINENTAL RY.—Bids are asked by P. E. Ryan, Secy. of the Trans-Continental Comn., Ottawa, Ont., until noon, Feb. 14, for the construction of five sections of the Grand Trunk Pacific R. R. as follows: Section 1, from Moncton, N. B., west 50 miles; from Grand Falls, N. B., west 62 miles; from Quebec Bridge, east 150 miles; from La Toque, west to Weymontachene, 45 miles; from a point eight miles west of the Abitibi River, east for 150 miles.

UNION PACIFIC.—KIL[illegible]ICK BROS. & COLLINS CONSTRUCTIO[illegible], of Beatrice, Nev., have contract for [illegible]-tracking 42 miles of main line bet[illegible] Rawlins and Wamsutter, Wyo.

WESTERN & GULF.—W[illegible] officially informed that line is being [illegible]eyed now for the projected line from [illegible]wkinsville to Americus and Dawson, Ga[illegible] miles. Crawford Wheatley is Pres., a[illegible] A. Pruit is Secy, at Americus. G. D[illegible] is Engr., at Cusseta, Ga.

YANKTON SOUTHER[illegible]emont Hill, Pres., Yankton, S. Dak., [illegible]rms us that this company is now sec[illegible] right-of-way and running survey for [illegible]osed railroad from Yankton, S. Dak., t[illegible]veston, Tex., 750 miles. The Board of [illegible]tors consists of Robert J. Gamble, W. J. [illegible]tle and Isaac Piles, of Yankton; Fremon[illegible], Jesse Lowman, Thomas R. Paxton, [illegible]d Hill, John W. Warrington and Willia[illegible]oper Proctor, of Cincinnati, Ohio. Capit[illegible]ock, $100,000. Contracts will be let this [illegible]

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA, ME.—John A[illegible]s, Ch. Engr. of the Augusta, Oakland & Waterville St. Ry. Co., Lewiston, Me., advises us that it is uncertain, as yet, whether this company will build the proposed electric railway 18 miles long from Augusta through Sydney to Oakland, connecting with the Waterville & Oakland St. Ry.

ELLSWORTH, ME.—The Mount Desert Transit Co. has been incorporated to build an electric railway from Ellsworth to Bar Harbor, Northeast Harbor and other places on Mount Desert Island. Among the directors of the new company are. John S. Kennedy, of Augusta Me.; Clement B. Newbold, of Philadelphia, and George B. Dorr and Robert Amory, of Boston. All are property owners in Bar Harbor, and their interests are one with those of the Summer Residents' Association.

PUTNAM, CONN.—John F. Carpenter, of the First National Bank, of this city, with others, will petition the next General Assembly for incorporation for the Putnam & Rhode Island Railway Co. The proposed route is from the boundary line separating the town of Gloucester, Rhode Island, and the town of Putnam on the road running from the city of Putnam to the city of Providence, Rhode Island, commonly known as the old Providence Turpike, thence along this road to School St. in a westerly direction, thence along School St. to Front St., thence to the easterly line of the Norwich & Worcester Railroad Co. and to Front St. bridge. It is understood that a charter is already held for a trolley road from Providence to the town of Gloucester.

NORWICH, CONN.—A petition signed by Jeremiah Stark and William H. Geer, of Lebanon, Conn., and Clinton E. Stark and George E. Manning, of Norwich, will be presented to the General Assembly of Connecticut asking a charter for the Norwich, Colchester & Hartford Traction Co. to construct an electric railway between Norwich and Hartford. The route proposed is from West Main St. along the westerly side of the Yantic River through the villages of Yantic, Fitchville and Bozrahville, the south part of Lebanon, the borough of Colchester and then on through Marlboro and East Glastonbury to East Hartford. The distance by steam railroad from Norwich to Hartford is 49 miles, while by the proposed electric railway it is but 38 miles, thus shortening the distance by eleven miles. The petitioners will ask for a broad charter, embracing passenger, freight and express franchises, together with the right to develop water power, to construct power stations and to buy or sell electric power.

NEW YORK, N. Y.—On Jan. 25th, D. E. Baxter, Pres. of D. E. Baxter & Co., Inc., railroad contractors, 27 William St., New York, and G. S. Brantingham, Vice-Pres., will start on a tour of inspection of work under construction, visiting Madison and Oshkosh, Wis.; Champion and Huron Bay, Mich.; Seattle and Tacoma, Wash.; Kansas City, Mo.; Esperenza, Md.; Rosney, Va.; Harrisburg and Galatia, Ill.; Charleston and Summerville, S. C. At the latter place they are constructing a large fireproof concrete power house in which will be installed two Snow gas producing engines of 920-I.H.P. each for the operation of the line with a guaranteed efficiency of 80% and reduction of 50% in coal consumption which will be a great saving in operating expenses, owing to the long haul of fuel. Mr. Baxter believes in the near future the gas producing engine will be principally used for electric railways, lighting system and manufacturing purposes generally.

TROY, N. Y.—The franchise of the Forest Park Railway Co., which operates a railway line from Troy to the Forest Park cemetery and other points in that vicinity, has been purchased by the United Traction Co. of Albany, N. Y. The Traction Co. is planning to construct a double-track road in the spring from its lines in Troy to the south entrance of the Forest Park cemetery, a distance of about two miles. The exact route to be followed has not been stated. The original plan was to build a road from the Troy city line, following the old Poestenkill highway to the south entrance of the cemetery. Several routes are under consideration. If the original route is adopted much grading will need to be done and several bridges will have to be erected. E. W. Marvin was Pres. and C. E. Gardner was Secy and Treas. of the Forest Park Railway Co. A. I. Culver, of Albany, is Vice-Pres. of United Traction Co. and Herschel Benedict is Engr.

MASONTOWN, PA.—The Brownsville, Masontown & Smithfield Electric Ry. Co.'s line has been surveyed from Masontown, Pa., west to Riverview; also from Masontown north via Lardin to [illegible]denborn, Lambert and Brownsville; and from Masontown via Mar[illegible] to New Geneva, a total of about 15 miles through a new coke country. W. J. Shel[illegible] of McKeesport, is Pres.; E. L. Schmid[illegible] Ch. Engr., and C. A. Smith, Supt. of construction. Capital is $150,000. Right-of-way has been secured for five miles.

FAIR[illegible]T, W. VA.—The Buffalo Construction Co. has been chartered to begin the construction of a street railway in this city and project extensions perhaps to Morgantown and Clarksburg later. The company has an authorized capitalization of $10,000. The incorporators are A. L. Pearson, C. [illegible] Shannon, M. M. Ward, R. O. Miller and J. R. Linn.

ROME, GA.—The Rome Railway & Light Co., which will issue $500,000 of bonds, may build an electric railway extension through Lindale. [illegible] S. Bush, of Louisville, Ky., is Gen. Mgr.

MON[illegible], LA.—We are officially informed that [illegible] will not let contracts for the proposed extension of its municipal street railway system for some time. A. A. Forsythe is Mayor.

NASHVILLE, TENN.—We are officially advised [illegible] "responsible parties have the Nashville & Lewisburg Interurban Ry. under consideration, but cannot say when it will go through." R. J. Lyle, Edgar Jones, E. R. Richardson and others are interested.

HENDERSON, KY.—T. Bethell has announced that the south branch of the proposed electric railway, in which he and others are interested, will run through Henderson, Geneva and Smith's Mills to Uniontown, Ky., 25 miles. The other branch will go via the Basket coal mines and the Spottsville mines to Owensboro, Ky., also about 25 miles. The system will finally be extended southward to Fulton, Ky. The project is still in embryo, and besides Mr. Bethell the other principal incorporators are W. W. Cooper and A. G. Crutchfield. Right-of-way is being obtained, but surveys are not yet made. Lines will connect with the proposed bridge across the Ohio River to Evansville, Ind.

GALLIPOLIS, OHIO.—We are officially advised that the Kanauga Traction Co. has made surveys for its projected line from Gallipolis to Kanauga, with extensions. M. K. Duty is Pres., Pennsboro, W. Va. Right-of-way is obtained.

NEWARK, OHIO.—A franchise to build and operate a line through the town on Main St. has been granted to the Newark, Utica & Mt. Vernon Traction Co. Grooved rails must be used and the speed is limited. For a portion of the distance the company is to pave between the rails and one ft. on each side and the remainder two ft. on each side.

NEWARK, OHIO.—The Ohio Central Traction Co., which has private right-of-way for an electric road between Newark and Lancaster via Buckeye Lake, has made application for a franchise in the City of Newark. The president of the company is W. P. Cosgrave, of Zanesville, and the secretary is E. C. Irvine, of Columbus. The proposed entrance to Newark is by way of South Third and German Sts.

CONNERSVILLE, IND.—City Council has granted a franchise to the Connersville Street Ry. Co. R. Neil Burgess, Vice-Pres., advises us that company has not decided what definite steps will be taken.

CHICAGO, ILL.—The Chicago, Lake Shore & South Bend Railway will be built over private right-of-way outside of cities and towns, and through all of the latter has ordinances by which it will be in control of its trackage from one end to the other. The road connects at Kensington, within the city of Chicago, with the Illinois Central Railroad, with which it has a traffic contract. The over-head work will be constructed with center poles, creosoted and set in concrete, with single catenary construction. The power-house will be located at Michigan City, Ind., and will be constructed of cement blocks. It is probable, also, that the shops and car house will be located at Michigan City. At present the company has all of its franchises and greater part of its entire right-of-way purchased. The work of grading will be pushed all winter. A private right-of-way 66 ft. wide has been granted through the new steel town at Gary, Ind. The road, which will be operated by the single-phase system, runs from its connection with the Illinois Central, at Kensington Station, in the city of Chicago, through Hammond, Indiana Harbor, East Chicago, Gary, Michigan City, New Carlisle to South Bend, Ind., a distance of about 80 miles. The officers of the company are: J. B. Hanna, Cleveland, Pres.; M. H. Wilson, Cleveland, Secy. and Treas.; Edwin Hanna, South Bend, Ind., Supt.; John W. S. Reigle, South Bend, Ind., Ch. Engr. The CLEVELAND CONSTRUCTION CO., Cleveland, Ohio, has general contract.

SPRINGFIELD, ILL.—A contract has been awarded by the Springfield & Southeastern Traction Co. to the TURNER CONSTRUCTION CO., of New Orleans, for the construction of an interurban electric railroad from this city to Pana, a distance of 50 miles. J. J. Finn is Pres. of the company.

PARIS, ILL.—I. N. Doughty, Engr., advises us that company has obtained a franchise and that work has been started on local electric street railway system. Contracts will be let soon for 6,000 ft. of track in brick pavement. Capital, $50,000. The officers are: F. L. Kidder Pres.; C. F. Pro[illegible], Secy.

CHICAGO, ILL.—The Chicago & Southwestern Electric Ry. Co. has been chartered in Oklahoma with $250,000,000 capital to build an electric line from Chicago to Denver. It will touch Joliet, Mendota, Rock Island, Moline, Galesburg, Peoria, Pekin, Streator, Bloomington and East St. Louis in Illinois; St. Louis, Jefferson City, Sedalia, Independence, Kansas City and St. Joseph in Missouri; Davenport, Muscatine, Des Moines and Council Bluffs in Iowa; Omaha, Lincoln, Tobia, and Superior in Nebraska; Kansas City, Lawrence, Topeka, Junction City, Minneapolis, Osborne and Stockton in Kansas, and Denver, Colorado Springs and Pueblo in Colorado. The total length will be 2,500 miles and the cost $200,000,000. P. M. Dunn and Louis F. Rabe, of Chicago, are the principal incorporators. The central offices will be in Chicago and Guthrie, Okla.

LINCOLN, NEB.—The Citizens' Railway Co. has been granted a franchise by the City Council to extend its lines into the north and south sections of the city. Charles H. Cox is Gen. Mgr.

WAYNESVILLE, MO.—We are officially informed that the Ozark Transit Co. is awarding contracts now for its proposed line. J. J. Burns, 526 Victoria Bldg., St. Louis, is Pres. Capital is $50,000. Company is incorporated to build from Waynesville to Jefferson City, and from Waynesville to Mountain Grove, Mo.

AMARILLO, TEX.—We are officially advised that the Amarillo Street Car Co. will let contracts in a month or two for building its proposed line in this city, about eight miles in length. Right-of-way and capital have been secured. No survey has been made yet. Capital, $250,000. John K. Shireman is Secy.

ENID, OKLA.—The City Council has granted a franchise to C. H. Bosler, of Dayton, Ohio, to construct and operate a street car system in Enid. The franchise specifies that four miles must be completed within six months.

PROSSER, WASH.—Frederick Finn, Pres. of the Prosser Traction Co., advises us that contracts will be let probably in May or June for constructing its line westward ten miles and eastward for 35 miles. Surveys will be started at once, after which right-of-way will be secured. Capital is being negotiated. F. A. Jenne is Ch. Engr. and G. A. Todd, Secy., at Prosser. Capital stock, $150,000.

SPOKANE, WASH.—Jay P. Graves, Pres. of the Spokane & Inland Ry., has made application to the City Council for a franchise to construct a two-track tunnel one mile long in Front Ave., to connect the freight and passenger terminals, at a cost of $1,000,000. The subway will be 38 ft. wide, 22 ft. deep, the crown being at least four ft. from the street surface. Two years will be required to build it. Mr. Graves announces that by the use of the subway the time of trains between Spokane and Coeur d'Alene, Idaho, 34 miles can be cut to 50 minutes. Contracts for 32 miles of fence have been awarded, making 128 miles of line fenced.

BERKELEY, CAL.—The Oakland Traction Consolidated Co. will build two double-track cross-town lines in Berkeley to San Francisco Bay, about five miles in length. Surveys are made and right-of-way and finances are secured. Berkeley is the fourth city in size in California, and increasing in population at a rapid rate and is beginning to develop its three miles of water front on the continental side of the bay. J. V. Mendenhall is Town Clerk. Edward M. Boggs is Ch. Engr. of the company, at 710 San Pablo Ave.

SAN BERNARDINO, CAL.—A. C. Denman, Jr., Pres. and Gen. Mgr. of the San Bernardino Valley Traction Co., writes us that an extension seven miles long is to be built from Colton to Riverside, Cal. Right-of-way has been obtained and survey made.

MONTEREY, CAL.—The Monterey, Fresno & Eastern Railway Co. has been incorporated with a capital of $15,000, of which 10% has been subscribed. The new road is to run from Monterey to Fresno by a route estimated to be 140 miles. The directors are as follows: Alfred D. Bowen, G. W. Purcell and H. L. Sanborn, of San Francisco; F. M. Fairchild, Winfield Dorn, W. H. Chickering, Allen L. Chickering, George A. Whipple, J. S. Sansom.

BISBEE, ARIZ.—Bids are asked by the Warren Co. until Feb. 4 for preparing the roadbed and sub-grade of approximately five miles of electric line for the Warren Co., between Bisbee, Ariz., and Warren, Ariz. Instructions to bidders, specifications, plans and profiles and other necessary information are on file at office of Engineering News, New York. Specifications and profiles will be sent by the company to competent bidders upon receipt of $25 as a guarantee for return of plans. Cleve W. Van Dyke is Mgr., Bisbee, Arizona.

BOISE, IDAHO.—The County Commissioners have granted a charter to W. D. Kenyon, Paul R. Kartzke, J. C. Rogers, I. G. Hale and T. B. Lee, to build an electric railway from the south bank of the Snake River at this point into the city of Oakley, a distance of about 25 miles.

WALLACE, IDAHO.—The Council has granted a 50-year franchise to W. J. Hall and associates to build an electric railway in that city and eight miles outside the limits.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

BUCKSPORT, ME.—Preliminary surveys are being made at Alamoosook for the proposed power plant, which will furnish Bucksport and Orland with electricity for lighting purposes.

BOSTON, MASS.—Bids are asked until Jan. 21, by Capt. George L. Goodale, Constr. Q. M., Summer St., Boston, for installing electrical light fixtures, etc., in several buildings at Fort Warren and Fort Banks.

WEST STOCKBRIDGE, MASS.—PARRISH BROS. have secured the contract to install the electrical plant at West Stockbridge, and will also put in the street-lighting system.

LOWELL, MASS.—Plans are now being prepared for the enlargement of the Perry St. station of the Lowell Electric Light Corporation, and it is understood that construction work will commence early in March. Stone & Webster, 84 State St., Boston, are Gen. Mgrs.

WINDSOR, CONN.—The Northern Connecticut Light & Power Co., Windsor Locks and Thompsonville, will apply to the Legislature for important additional franchises. It asks for a charter to erect and maintain gas and electric power plants in Suffield, East Granby, Simsbury and Buckland and to manufacture and distribute electricity for light and power purposes in Windsor and Somers. The company will greatly extend the area of its operations if it secures the necessary franchises.

NEW YORK, N. Y.—The contract was awarded on Jan. 7 by C. B. J. Snyder, Supt. School Bldgs., New York, for installing electric equipment in addition to and alteration in School 3, Pleasant Plains, Boro. of Richmond, to T. FREDERICK JACKSON, INC., 592 Columbus Ave., New York, at $4,100.

GOUVERNEUR, N. Y.—The St. Lawrence River Power Co. has decided to deepen the power canal at Massena next spring, and during the winter extensive preparations will be made. The canal will be deepened to 40 ft., and over $1,000,000 will be expended on the work.

SANDY HILL, N. Y.—The Union Bag & Paper Co. is contemplating construction of a hydro-electric plant and dam, at a cost of $250,000. The plant will have a capacity of 12,000 HP.

UTICA, N.Y.—It is reported that the Utica Gas & Electric Co. has acquired gas and electric properties along upper Hudson valued at over $11,500,000. The company will erect in Utica a gas holder with a capacity of 1,000,000 cu. ft. A high-pressure pipe line will be laid through Mohawk Valley to Frankfort, Ilion, Mohawk, Herkimer, and Little Falls. The system at Frankfort will be improved, and in each place distributing tanks will be erected, to be fed by the high-pressure line, and distribute with the usual pressure. It is proposed also to lay a gas main to Clinton. A gas plant will also be established in Canastota, capable of supplying that village and Oneida. The company proposes to install machinery at Trenton Falls that will double the capacity, making 16,000 HP. One mile above Trenton Falls, at Prospect, the company has purchased property on West Canada Creek, and has plans for the construction of a dam and reservoir which will produce 6,500 additional HP.; seven miles further north, at Enos, on Black River, the company will build another station, having a capacity of 3,000 HP. This will give it a total of 25,500 HP., generated by hydraulic force, aside from its 8,000-HP. steam plants in Utica. A separate transmission line will be constructed from Trenton Falls to supply power to Rome. Rome now has Trenton Falls power, but it is transmitted via Utica. Next spring the company will build another transmission line across by Holland Patent and Stittville to Rome. C. A. Greenidge is Mgr., and W. E. Van Patten is Ch. Engr., Utica.

BAYONNE, N. J.—The Common Council has awarded a 5-yr. contract to the PUBLIC SERVICE CORPORATION to furnish the city with gas and electric street lights. The Public Service Corporation agrees to provide electric lights at the rate of $85 a light of 2,000 c.-p. a year, providing there are not less than 250 lights; and if the number of lights is increased to 350, the price will be $80 a year per light. At the present time the city is paying at the rate of $100 a year for each arc light on the streets. W. W. Titzell is Supt., Jersey City, N. J.

GIRARDVILLE, PA.—The contract for lighting the streets of Girardville has been awarded to the FRACKVILLE & GILBERTON LIGHT, HEAT & POWER CO., at $70 per arc light. G. M. Kennedy, Frackville, is Supt.

WASHINGTON, D. C.—Bids are asked at the Bureau of Supplies and Accounts, Navy Dept., Washington, until Jan. 22, to furnish at the navy yards, etc., Portsmouth, N. H., Boston, Mass., Newport, R. I., New York, N. Y., League Island, Pa., Washington, D. C., and Norfolk, Va., a quantity of supplies, as follows: Schedule 345; vitrified conduit, metal plugs, electric wires and cables, piles, steel beams, asphaltum, etc. Schedule 349; incandescent lamps, commutator, spark plugs, dash coils, batteries.

WASHINGTON, D. C.—Elliott Woods, Supt. of the U. S. Capitol Building and Grounds, has made the award for engines, generators, sub-station apparatus, storage batteries and switchboards for power-house and Congressional buildings, bids for which were opened on Dec. 26, 1906, to the WESTINGHOUSE ELECTRIC & MANUFACTURING CO., of Pittsburg, Pa., under bid A, at $533,728. The detailed bid follows: Class, steam turbines; sections of specifications included, C, D, E, F, and G; delivery, 12½ months; capacity, 2,000 KW., 3-phase; speed, 1,500 r. p. m.; voltage, 6,600 volts; frequency, 25 cycles; type, horizontal Parsons; weight, 188,000 lbs.; size, 38 ft. 8 ins. by 7 ft. 10 ins.; height, 9 ft. 4 ins. above floor. Guaranteed steam consumption: Steam pressure at throttle (gage), 160 lbs.; vacuum at exhaust pipe by mercury column referred to a barometric pressure of 30 ins., 27 ins.; one-half load, 1,000 KW., dry-saturated, 22.3 lbs. per KW.-hour, 100% superheat 20.1 lbs.; three-quarters load, 1,500 KW., dry-saturated 20.6 lbs. per KW.-hour, 100% superheat 18.5 lbs.; full load, 2,000 KW., dry-saturated 19.2 lbs. per KW.-hour, 100% superheat 17.3 lbs.; one and one-quarter load, 2,500 KW., dry-saturated 19.7 lbs. per KW.-hour, 100% superheat 17.7 lbs.; one and one-half load, 3,000 KW., dry-saturated 21.9 lbs. per KW.-hour, 100% superheat 19.7 lbs. (Including all steam used or consumed by turbine and all leakages or losses in the turbine.) Regulation of turbine between no load and full load, 2%. Temperature of generator end: Normal load and voltage, 100% P. F., for 24 hours, 40° C. rise; 50% overload, 3 hours 100% P. F., 55° rise. (Referred to room temperature of 25° C.). Insulation test: Field coils from core. Momentary puncture test: 1,500 volts alternate; armature winding from core, 15,000 volts alternate. Section D, no specification submitted by manufacturer; Section E, based on storage battery built by the Electric Storage Battery Co., Philadelphia, Pa.; Section F, no detail specification submitted by manufacturer; section G, no detail specification submitted by manufacturer.

CATONSVILLE (Baltimore post-office), MD.—Baltimore County Commissioners have awarded a 5-yr. contract for lighting Catonsville to the BALTIMORE COUNTY WATER & ELECTRIC CO., 411 East Baltimore St., Baltimore, Md.

HAMLET, N. C.—C. Gresham and J. A. Williams, of Charlotte, are reported to have purchased the plant of the Hemlet Electric Light Co., and will enlarge same.

SANFORD, N. C.—At Raleigh, a charter has been issued to the Consumers' Light & Power Co., its object being to supply gas, electricity and steam for lighting, heating, power, etc. The company will do business at the towns of Sanford and Jonesboro, where electric light plants are to be installed. The power to run the plants is to be furnished by the Buckhorn Power Co.

CONWAY, S. C.—Bids will be received about Jan. 31, by the Board of Public Works, for constructing an electric light plant. Robert B. Scarborough is Chn.

ROCK HILL, S. C.—Bids are asked by J. B. Johnson, Chn. Light Com., Rock Hill, until Feb. 15, for lighting the city for a period of 10 yrs. Specifications, schedule of location and blank forms of contract may be obtained from the chairman, and map showing the location of lights may be inspected in his office. The contract for city lighting will carry with it franchise to the streets for the purpose of incandescent lighting and power service. John Roddey is Mayor; Charles E. Waddell is Consult. Engr.

NEWNAN, GA.—The Water and Light Commission, it is reported, has purchased site on which to erect proposed electric light plant.

ALBANY, GA.—Application for a charter for the Albany Power Co. has been made by Alex. W. Smith, Frank L. Meufville and E. M. Underwood. The company will be capitalized at $25,000, with the privilege of increasing to $2,500,000, and will engage in operating dams, water powers, power-houses and in the manufacture of all kinds of machinery by water or electric power.

LITHONIA, GA.—Georgia Granite Co. has purchased the Baker Shoals on Yellow River, which will be developed and an electric plant installed for transmitting the power obtained by electricity, operating the company's quarry and railroad from Rock Chapel Mountain to Lithonia. Power will also be available for manufacturing enterprises.

ST. AUGUSTINE, FLA.—The city of St. Augustine has awarded contract to the ST. JOHNS LIGHT & POWER CO. for lighting the city. The contract calls for 90 arc and 40 incandescent lamps.

JACKSONVILLE, FLA.—The contract for constructing illumination and power plant for Dixieland, an amusement resort, has been awarded to the FLORIDA ELECTRIC CO. The lighting scheme calls for 20,000 incandescent lamps and a motor service for roller coaster, circular swings, etc.

Bids will be asked by the Board of Trustees for two new boilers for the electric light plant. R. N Ellis is Supt. Water-Works and Electric Light Plant.

LAKE CHARLES, LA.—The Lake Charles Ice, Light & Water Co. is reported to have increased its capital from $100,000 to $150,000 and will make improvements to its plant.

BROOKHAVEN, MISS.—The city has awarded contracts for lighting plant, including one 200-KW. and 100-KW. alternating-current generator, to the CROCKER-WHEELER CO., Ampere, N. J. A 13-KW. generator is to be furnished as exciter for the belt-type generator, which will give the plant a capacity of 300-KW. alternating-current.

McMINNVILLE, TENN.—It is reported that the Great Falls Power Co. is about to begin construction work on its proposed developments at Caney Forks Falls, and that it is expected about 50,000 HP. will be obtained. This horse-power is estimated for 10 months in the year, and about 32,000 HP. is estimated for the other two months. The expenditures involved will approximate, it is claimed, several million dollars. C. H. Fisk, of Detroit, Mich., has been promoting this enterprise, and it is understood that he has financed the proposition.

LOUISVILLE, KY.—Articles of incorporation for the White City Electric Light, Heat & Power Co. have been filed. The capital stock is $300,000. The incorporators are: Richard D. Bakrow, C. C. McClarty, John M. Sharp. The company will furnish light, heat and power for the "White City," an amusement enterprise now in course of construction at Riverview.

The Kentucky Electric Co. has purchased from J. C. Parker a site for its new plant, for $70,000. It fronts 147 ft. 6 ins. on Water St., 100 ft. east of Third Ave., and extends 390 ft. back to Washington St. The lot lies between Second and Third Sts. Bids for construction will be asked for soon.

LOUISVILLE, KY.—The Kentucky Electric Co. has purchased site for a new power house to be erected on Water St., 100 ft. east of Third Ave. and 390 ft. back of Washington St.

SHARON, OHIO.—TAYLOR BROS., of this city, have secured contract for the erection of the power-house of the new Petroleum Iron Co.'s works near the street-car barns. This building will be of brick, with stone trimmings, and will be 106 × 38 ft. in size, and will be equipped with dynamos, electric cranes, boilers and engines.

HAMILTON, OHIO.—JOHN W. HILL, First Nat'l Bank, Cincinnati, is reported to have secured the contract to rebuild the municipal electric plant. It is reported also that he will have charge of the enlarging of the water-works.

CLEVELAND, OHIO.—A contract has been made with the CLEVELAND ELECTRIC ILLUMINATING CO. for arc lamps used on the streets, at the rate of $67.92 each for the coming year. This is $1.80 per lamp less than last year. At present the company is operating 1,350 lamps for the city. The plans for lighting the West Side from the Brooklyn municipal plant will be proceeded with, notwithstanding the low bid of the company. It is reported that the municipal plant this year will show that the lighting can be done at a cost of $60 per lamp per year.

TOLEDO, OHIO.—FRANK STAHL has been awarded the contract for the erection of the new chapel and power-house for St. Vincent's Orphanage. About $35,000 will be expended in the two additions.

NOBLESVILLE, IND.—A company is being organized in this city to supply Sheridan, Cicero, Arcadia and other towns with electricity for lighting and power purposes.

BOYNE, MICH.—It is stated that the Village Board has granted a franchise to O. S. Heyden, of Petoskey, Mich., and W. H. Selkirk, of Boyne, for a gas plant, and it is reported that construction will be commenced at once.

EDENVILLE, MICH.—The Tittabawassee Power Co., capitalized at $1,000,000, has filed articles of association in Midland County. The incorporators are George G. Prentis, Theodore H. Hinchman, Jr., Lewis F. Flanders, Benjamin F. Mulford, L. M. White and William C. Manchester, of Detroit, and Lewis E. Rowley, of Lansing. The company is organized for the purpose of building dams and utilizing the power of the water of the Tittabawassee River at Edenville. Surveys have been made, plans prepared and lands to be overflowed purchased. Work on the first of a series of three dams will begin in the spring. The principal business office of the company will be located at Edenville.

HOLLAND, MICH.—The Board of Public Works is reported to have been authorized to procure estimates for enlarging the city lighting plant.

VICTORIA, MICH.—We are officially advised that F. E. Hatch is promoting plans for a water-power plant in Virginia which will have a capacity of 2,000 HP. and will need seven miles of line. Estimated cost, $70,000.

CHICAGO, ILL.—Bids are asked until Feb. 20 for the construction of transmission lines for the Sanitary District of Chicago. Probable cost of work, $15,000. Edward B. Ellicott is Electrical Engr., American Trust Bldg.

FREEPORT, ILL.—Charles E. Gregory, Adams and Clinton Sts., Chicago, Ill., is applying for a franchise for a new gas and electric lighting plant in this city.

PEORIA, ILL.—Bids are asked by the Commissioner of Public Works until Jan. 21, for furnishing the city with not less than 770 electric street lamps. E. A. Furry is Comr. Public Works.

WATERLOO, IOWA.—The Waterloo, Cedar Falls & Northern Ry. Co. is reported to be planning erection of a new power house at Waterloo this year. Estimated cost, $100,000. C. D. Cass is Gen. Mgr.; A. I. Woodring is Ch. Electrician.

DEER RIVER, MINN.—It is proposed to construct an electric light plant, to cost about $9,000. No engineer selected as yet. A. D. Brooks is Village Recdr.

VALPARAISO, NEB.—It is reported that a franchise has been granted to D. M. Dean for the establishment of a lighting plant.

FREMONT, NEB.—About $70,000 will be expended for improvements to the waterworks and electric light plant. C. A. Chapman is Engr., 1537 Marquette Bldg., Chicago, Ill.

BETHANY, MO.—It is reported that bids will be received for improvements to the electric light plant, to cost about $6,000. J. F. Slinger is Supt.

ST. LOUIS, MO.—Bids are asked until Jan. 25, by the Board of Public Improvements, for furnishing material and doing the following work at the St. Louis Industrial School: Installing a direct-current dynamo and switchboard panel in the engine-room; making steam-pipe connections to two new engines and making certain alterations in the present steam plant; installing an engine plant for furnishing electric light and power. Andrew J. O'Reilly is Pres. Bd. Pub. Improvements.

DALLAS, TEX.—The City Council has granted a gas franchise to B. S. Wathen and associates. The company is to have mains of ten miles length in the city of Dallas within two years, and is to furnish gas, either natural or artificial.

CORPUS CHRISTI, TEX.—The Corpus Christi Ice & Electric Co. will erect a new electric plant, at a cost of $30,000. E. F. Gibbon is Supt.

FORT BAYARD, N. MEX.—Bids are asked until Jan. 23, by Capt. S. P. Vestal, Q. M., U. S. A., for furnishing and installing electric light fixtures in Post Exchange at this post.

TEXICO, N. MEX.—The Texico Water & Light Co. is reported to have been incorporated with a capital of $10,000 for the purpose of establishing a light plant and water system. R. Reagan and Edward T. Massey are reported to be the incorporators.

AZTEC, N. MEX.—H. F. Matheson has applied to the Town Council for permission to erect and operate an electric light plant and furnish electricity for lighting and other purposes.

BREMERTON, WASH.—Navy Department has completed plans for a central power plant at the Puget Sound Navy Yard, to cost $308,000. It will be built largely by contract.

PASCO, WASH.—Howard Amon, of Kennewick, Wash., is reported to have applied for permission to use 11,000 cu. ft. of water from Snake River at a point at the head of Five Mile Rapids, about five miles east of Pasco. The water is to be used for developing power, and the work includes the damming of the entire Snake River, which will necessitate construction of locks for navigation purposes. The cost of the dam, locks and power plants will be about $500,000. About 20,000 HP. is to be developed. The power is to be used principally for pumping water to irrigate land in the vicinity of Richland, Pasco and Kennewick and the surrounding country.

PRINEVILLE, ORE.—Bids probably will be received in May or June for the construction of plant for the Pringle Falls Electric Power & Water Co., to cost about $200,000. W. H. Huston, of Prineville, is Engr. L. B. Lafolett is Secy.

BAKER CITY, ORE.—The City Council has awarded contract to the BAKER LIGHT & POWER CO. to furnish electricity for lighting the city for one year. The city is contemplating the erection of a municipal electric light plant next year, and to utilize the water power from its gravity water system.

CROMPTON, CAL.—The Trustees will let electric light franchise to G. R. Fulton, for which he will pay $22,000.

PASADENA, CAL.—We are officially advised that of the $200,000 lately secured by bond issue, $125,000 will be expended upon electric light plant and $75,000 upon improvement to fire apparatus. Heman Dyer is City Clk.

SAN FRANCISCO, CAL.—A company is being formed in Sacramento for the purpose of building a $5,000,000 power plant on Kings River in California, to supply power to Oakland, San Francisco, Tonopah, Goldfield, Bullfrog and other California and Nevada cities. Surveyors are now in the field surveying lines and sites for the power-houses. H. H. Clark is interested.

ELY, NEV.—This city is to have a modern electric light plant, and actual work of construction has already started. William V. Lockwood, who built a power and lighting plant here several years ago, has formed a new company and intends to give the mines of Ely more power and light and to expend over $100,000 in building a power-house, and equipping it with the latest electrical machinery.

HALIFAX, N. S.—Bids are asked until noon, Jan. 31, by the Committee on Works, for lighting the streets and public buildings of the City of Halifax. J. J. Hopewell is Clerk of Works; W. W. Doane is City Engr.

MONTREAL, QUE.—The Canadian Light, Heat & Power Co. has applied to the City Council for permission to furnish electricity for light and power in the city and for an opportunity to compete for the city lighting contract. The company has a capital stock of $4,000,000, and is to develop what is known as the Beauharnois Canal. The following men are interested in the project: F. Howard Wilson, William Cassils McIntyre, William C. Finley, E. A. Roberts, George G. Foster, S. H. Ewing, H. J. Fuller, P. J. McIntosh, F. J. Shaw and William Lyall.

OTTAWA, ONT.—The election, held Jan. 8, to vote upon the Beck Niagara Power Measure, resulted favorably for the measure. The object of the by-law is to furnish cheap power from Niagara to the towns of the Peninsula of Ontario. Reports on this matter are on file at the office of Engineering News, New York.

WINNIPEG, MAN.—A hydro-electric power plant for this city is now being designed. The location of the plant will be on the Winnipeg River, at Point du Bois Falls, 75 miles northeast of the city. The designs provide for a 60,000-HP. plant. The present installation will be for a net capacity of 20,000 HP. It is expected that bids will be called for various kinds of machinery, construction and transmission line contracts about Feb. 1. The work also includes 24 miles of a standard-gage tramway, to be built from Lac du Bonnet station, C. P. R., to the site of the works, for the purpose of transporting materials. Cecil B. Smith is Engr. Power Construction Dept.

REGINA, SASK.—The International Gas Heating & Lighting Co., Cleveland, Ohio, have applied to the Council for a 20-yr. franchise to light the city.

EDMONTON, ALTA.—It is proposed to install at the electric light plant a 1,000-KW. turbo generator, 3-phase, 60-cycle, 2,400 volts, and auxiliaries. R. R. Kelly is City Engr.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

BANGOR, ME.—The Bangor Ry. & Electric Co. will rebuild the Bangor and Brewer bridge. Estimated cost, $75,000. W. H. Snow, Bangor, is Supt.

GUILEFORD, ME.—The CANTON BRIDGE CO. has been awarded contract for constructing a single-span steel bridge, granite foundation, over the Piscatoquis River. C. S. Bennett is Town Clk.

BOSTON, MASS.—Bids are asked until noon, Jan. 24, for constructing steel superstructure of the drawspan and spans Nos. 1 and 2 of the Northern Ave. Bridge. William Jackson is City Engr.

COHOES, N. Y.—Bids are asked by the Common Council, until 8 p. m., Feb. 5, for constructing a two-span plate-girder bridge. William J. Elliot is City Clk. (Advertised, Engineering News.)

UTICA, N. Y.—The contract for widening approach to West Shore R. R. Co. bridge on Bleecker St. and building retaining wall has been awarded to N. D. PETERS for $5,000.

SYRACUSE, N. Y.—The only bid received by N. V. N. Franchot, Supt. Public Works, Albany, on Jan. 9, for constructing lift bridge over the Oswego Canal at North Salina St., Syracuse, was that of John M. Shultz, of this city, at $67,510. Itemized bid will be found under Contract Prices in this issue.

OAKMONT, PA.—The Government has granted permission for Allegheny County to build bridge over Allegheny River at this city. Cost, $260,000. W. L. Sibert is Govt. Engr., Government Building, Pittsburg.

CHARLESTON, W. VA.—The bid of the WALKER-LAWRENCE BRIDGE CO., of York, Pa., at $77,500, has been accepted for building the Keystone bridge over Elk River. This bid was additional to the bids received on Dec. 20. It was announced that the Penn Bridge Co. would be awarded the contract at $86,000. Mr. Ferris, representing the Penn Co., at council meeting, stated that if any other company could make a better proposition than the Penn Bridge Co. had he would be willing to let the new bid come in as though it had been submitted on Dec. 20, the time when all bids were closed. Noted on Jan. 3.

JACKSONVILLE, FLA.—The contract for constructing bridge across McGirts Creek has been awarded to the JACKSONVILLE ORTEGA TOWN CO. Estimated cost, $11,000. Philip Prioleau is City Engr.

GIRARD, ALA.—The contract for erecting concrete bridge across Holland's Creek, this city, has been awarded to B. H. HARDAWAY, at $4,000. Work is to be completed in 90 days.

SHREVEPORT, LA.—The Kansas City Southern Ry. Co. will construct a bridge at this city. J. A. Lahmer is Prin. Asst. Engr., Kansas City, Mo.

NAPOLEON, OHIO.—A new bridge over the Maumee River will be constructed. Cost, $70,000.

WALDO, OHIO.—The contract for erecting a steel bridge over the Whetstone River near this city will be awarded Feb. 14 by the County Commissioners. The bridge will span the Waldo Dam and be 152 ft. long.

YOUNGSTOWN, OHIO.—The contract for reflooring the McGuffey St. bridge has been let to the CAPITOL CONSTRUCTION CO. at $17,400.

NEWPORT, IND.—The contract for constructing a 4-span bridge over the Wabash River has been awarded to JAMES F. RICE, Delphi, for $22,518.

PRINCETON, IND.—The County Commissioners have awarded contract for constructing a new bridge over Patoka River on the site of Severn's bridge, northeast of that city to the VINCENNES BRIDGE WORKS for $3,560. REAVIS & CO., at $3,173, secured contract for the concrete work for the new bridge.

TOPEKA, KAN.—The contract for reconstructing the East Sixth Ave. viaduct has been let to the TOPEKA BRIDGE CO. for $13,958.

DES MOINES, IOWA.—Bids are asked by Board of Public Works until Jan. 30, for taking down present steel bridge over Des Moines River at North Sixth St., and reerecting it at Euclid Ave. George D. Dobson is City Engr.

ORANGE, TEX.—S. M. DEPEW, of this city, has been awarded contract for construction of bride across Cow Bayou at Round Bunch.

CHANDLER, OKLA. — The MISSOURI VALLEY BRIDGE & IRON CO., Leavenworth, Kan., has been awarded contract to construct three steel bridges in Lincoln County.

TULSA, IND. T.—A new bridge across the Arkansas River will be constructed by the St. Louis & San Francisco R. R. Co. Cost, $500,000. J. F. Hinckley is Ch. Engr., St. Louis.

BENSON, ARIZ.—The MIDLAND BRIDGE CO., Kansas City, has been awarded contract for constructing bridge across San Pedro River near this city. The plans call for a bridge with a 100-ft. span, 45-ft. tubular steel piers filled with concrete, the approaches to be made of pine piling treated with creosote.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Charles R. Evans, 33 Equitable Bldg., is said to be contemplating the erection of an apartment hotel at Deerfield St. and Bay State Road, to cost $350,000.

BOSTON, MASS.—Bids are asked until noon, Jan. 30, for constructing Burnham Memorial Building at Boston City Hospital. Maginnis, Walsh & Sullivan, Colonial Bldg., Archs.

SALEM, MASS.—Clarence Blackhall, Arch., Boston, has presented plans to Essex County for court-house improvements, to cost $800,000. The plans call for construction of a new building for the Registry of Deeds and Probate, at a cost of about $350,000, and for connecting this new building with two other court-houses, and remodeling these buildings. They also provide for a frontage of the three united buildings of 400 ft. and an extreme depth of 256 ft. They also provide for five court rooms, county offices, rooms for attorneys, juries, sheriffs, witnesses, prisoners and other court attendants; toilet rooms, gas and electric fixtures, and other modern improvements. The front of the building will be of granite, of a Gothic type of architecture. Wallace Bates is Chn. County Comn.

SPRINGFIELD, MASS.—Plans are being prepared for the Chateau apartment building to be converted into a hotel building. Cost, $175,000. Edward T. Davis is interested.

NEW YORK, N. Y.—The following bids were received Jan. 8, by John W. Brannan, Pres. Bd. of Trustees, Bellevue and Allied Hospitals, for erection of Training School for Women Nurses, Bellevue Hospital, situated on the East River, between 25th and 26th Sts., Boro. of Manhattan: P. J. Brennan & Son, 949 Broadway, $560,000; W. Crawford, 5 East 42d St., $631,991; T[illegible] B. Leahy Building Co., 1 East 42d St., [illegible]000; T. T. Nesbit Co., 116 Nassau St., [illegible]; Waters & O'Connell, 103 East 125[illegible] $565,000; R. E. Henningham, 1 Mad[illegible] Ave., $543,950; J. C. Vreeland Building [illegible] 1 Madison Ave., $555,000; Kelly & Kell[illegible] Inc., 45 East 42d St., $535,500; J. Kennedy [illegible] 175 Front St., Brooklyn, $599,000; L. A. [illegible]rke & Son, 25 West 42d St., $553,734; [illegible]rd Corning Co., 100 William St., $575,[illegible] D. J. Ryan, 723 Third Ave., Brooklyn, $[illegible]; Buckley Realty & Construction Co., [illegible]es Bldg., $544,000; J. H. Parker Co., [illegible] Fourth Ave., $498,975.

NEW YORK, N. Y.—The following bids were received Jan. 14, by C. [illegible] J. Snyder, Supt. School Bldgs., for constructing Public School No. 140, Boro. of Brooklyn: Thomas McKeown, 521 West 110th [illegible] $[illegible]9,437; L. Wechsler, 1135 Broadway, $1[illegible]; George S. Driscoll, 391 Fulton St., Brooklyn, $99,690; F. J. Kelly Sons, 215 Montague St., Brooklyn, $107,532; George Hildebrand, 38 Park Row, $106,577; A. Nug[illegible] & Son, 22 Ormond Pl., $107,418; William [illegible] Luth, 589 Park Pl., Brooklyn, $94,319; [illegible] J. Ryan, 723 Third Ave., Brooklyn, $1[illegible].

Bids received Jan. 7 for general construction, etc., of Public School No. 155, Herkimer St. and Eastern Parkway, Boro. of Brooklyn, were as follows: F. T. Nesbitt & Co., Inc., 116 Nassau St., $2[illegible]; George F. Driscoll, 391 Fulton St., Brooklyn, $297,400; Peter Cleary, 235 Bainbridge St., Brooklyn, $307,432; Arci Construction Co., 99 Broadway, Brooklyn, $321,600; R. E. Henningham, 4 Court Sq., Brooklyn, $298,828; Geo. Hildebrand, 38 Park Row, $307,744; Thomas McKeown, 521 West 110th St., $296,747; John Auer & Sons, 957 Broadway, Brooklyn, $295,300; F. J. Kelly Sons, 215 Montague St., Brooklyn, $323,469; Thomas Cockerill & Sons, 147 Columbus Ave., $303,000; Clarke & Stowe, 221 Greenpoint Ave., Brooklyn, $297,000.

NEW YORK, N. Y.—Plans have been filed for erection of a 6-story brick and stone apartment house at Broadway and 140th St. for Daily & Carlson, to cost $150,000. Neville & Bagge, 215 West 125th St., are Archs.

Plans have been filed with the Buildings Superintendent for a 6-story apartment house, to be built for Emanuel Doctor at Broadway and 149th St. It will have a frontage of 99 ft. and a depth of 90 ft., with a facade of brick, limestone and terra cotta, and will have accommodations for 34 families. It is to cost about $180,000. John Hauser is Arch., 358 West 125th St.

We are officially advised that plans have been prepared by Goldner & Goldberg, Archs., Westchester and Jackson Aves., for three 6-story flat buildings on the north side of 29th St., for the Bathgate Realty Co., 21 East Fourth St. Cost, $120,000.

The Court-House Board submitted its report on Jan. 11 to the Board of Estimate in regard to the site for new court-house in New York. The Board is in favor of the east side of Union Sq., from 14th to 17th Sts. and running back to Irving Pl. An appraisement places the value of the property to be used at $8,913,500.

We are officially advised that plans have been filed for an 11-story apartment house to be erected at 67th St. and Lexington Ave. for the Sixty-Seventh St. Apartment Building Co., at a cost of over $520,000. The general contract has been awarded to the CO-OPERATIVE BUILDING CONSTRUCTION CO., which has sub-let contract for steel work to J. B. & J. M. CORNELL CO., 26th St. and Eleventh Ave. W. J. Taylor is Builder.

NEW YORK, N. Y.—C. B. J. Snyder, Supt. School Bldgs., has plans for a public school to be built on the south side of Tillary St., between Bridge and Lawrence Sts., Brooklyn. It will be four stories, 215 × 150 ft., of brick, stone, concrete and terra cotta, structural iron and fireproof construction, with slag roof, electric wiring, etc. Estimated cost, $370,000.

Kirby, Petit & Green, Archs., 37 West 31st St., have let general contract to V. J. HEDDEN & SONS CO., 1 Madison Ave., for constructing an office building, at 70 and 72 Broad St., for the American Banknote Co., 76 Trinity Pl. The building will have five stories, and will be 44 × 63 ft., brick and granite, structural steel, fireproof construction. Estimated cost, $250,000.

John E. Scharsmith, Arch., 1 Madison Ave., has plans for a flat building, with store, to be erected at 186th St. and St. Nicholas Ave. for Moersch & Wille, 29 Tremont Ave. The building will be 100 × 90 ft., will have six stories, and will be constructed of brick, stone and terra cotta. Estimated cost, $125,000.

We are officially advised that Buchman & Fox, Archs., 11 East 59th St., are preparing plans for an 11-story mercantile building which will stand on corner of 16th St. and Fifth Ave., 37 × 80 ft. The Hudson Realty Co. is the owner. The building will be ready for occupancy in January, 1908. It will represent an investment of $800,000.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 11 a. m., Jan. 28, for installing heating and ventilating and electric generating apparatus in Eastern District High School, on the easterly side of Marcy Ave., between Rodney and Keap Sts., Boro. of Brooklyn.

Bids are asked by Theodore A. Bingham, Police Comr., until 10 a. m., Jan. 28, for furnishing all labor and erecting all materials necessary to build and complete new station house, prison and stable for the 19th Precinct, on the ground and premises in the City of New York on the south side of West 30th St., 263 ft. easterly from Seventh Ave., Borough of Manhattan.

Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., Jan. 30, for furnishing and placing marble base, etc., on second and fourth floor corridors, Borough Hall.

ELLIS ISLAND (New York post-office), N. Y.—James Knox Taylor, Superv. Arch., Washington, D. C., has awarded to the NORTH-EASTERN CONSTRUCTION CO., Fuller Bldg., New York, contract for construction of a hospital for contagious diseases at the Immigration Station, Ellis Island, N. Y. The contract is divided as follows: Administration building and Measles Wards A, B, C and D, $124,384; power-house and laundry, $47,373; Measles Ward E, $29,833; total, $201,590.

PLEASANTVILLE, N. Y.—Plans are being prepared by Max G. Heidelberg and Harry Jacobs, Archs., 322 Fifth Ave., New York, for a group of buildings at Pleasantville, for the Hebrew Sheltering Guardian Society. Cost, $1,000,000.

BUFFALO, N. Y.—It is reported that a 1-story brick car-house, on Broadway, will be erected by the International Ry. Co., Elliott Sq. Cost, $1,000,000. T. W. Wilson is Gen. Mgr.

JAMESTOWN, N. Y.—The Public Building Committee of the Board of Supervisors has decided to advertise for bids for the construction of a new court-house. Bids will be received in about two weeks.

SYRACUSE, N. Y.—We are officially advised that contract for converting five buildings on South Salina St., Syracuse, between Washington and Fayette Sts., into one large department store for Bacon, Chappell & Co., has been awarded to the CONSOLIDATED ENGINEERING & CONSTRUCTION CO., Syracuse Savings Bank Bldg., Syracuse, and Metropolitan Life Bldg., New York.

PHILADELPHIA, PA.—Plans are being prepared by Cope & Stewardson, Archs., 320 Walnut St., for the veterinary hospital building of the University of Pennsylvania, to be built at 39th St. and Woodland Ave. FRED. A. HOVENS & CO. have contract for the work. Cost, $500,000.

John T. Windrim, Commonwealth Bldg., has prepared plans for an 8-story store building, at Eleventh and Market Sts., for the Mason estate. The construction will be of brick and steel, fireproof, slag roof, open plumbing, reinforced concrete work. Estimated cost, $300,000.

WEST CHESTER, PA.—THOMAS M. SEEDS, 1207 Race St., Philadelphia, has secured contract for constructing a bank and office building for the First National Bank. The building will be of brick and stone, fireproof, six stories high, and will cost about $100,000.

FAIRVIEW, PA.—Plans are being prepared by J. C. M. Shirk, 421 Chestnut St., Philadelphia, for the State Hospital for Criminal Insane, consisting of a group of buildings. Cost, $1,500,000.

PITTSBURG, PA.—It is reported that Philip Hamburger is arranging to erect an 8-story mercantile building at 140 Sixth St., and is having plans prepared by Charles Bickel, 524 Penn Ave. Estimated cost, $125,000.

A large auditorium is to be built in Schenley Park, which will have a seating capacity of more than 15,000 people.

WILMINGTON, DEL.—Plans are being prepared for Y. M. C. A. building, to be erected at a cost of about $200,000.

WASHINGTON, D. C.—Andrew Carnegie has presented the Bureau of American Republics with $750,000, to erect building for its use. John Barrett is Chn., 2 Jackson Pl., N. W.

WASHINGTON, D. C.—Bids were received Jan. 15, at the office of Elliott Wood, Supt. of the U. S. Capitol Building and Grounds, Washington, for installing elevators in the new House of Representatives Office Building. Bids were asked on (a) 12 elevators; (b) 9 elevators; and (c) 7 elevators, as follows: A. B. See Electric Elevator Co., 220 Broadway, New York, (a) $68,175; (b) $50,875; (c) $40,200. Thomas W. Power, Washington Loan & Trust Bldg., Washington, (a) $59,090; (b) $44,349; (c) $35,323. Kaestner & Co., 241 South Jefferson St., Chicago, Ill., (a) $74,775; (b) $56,470; (c) $44,530. Otis Elevator Co., 17 Battery Pl., New York, N. Y., (a) $59,000, $58,750; (b) $44,250, $51,700; (c) $44,500, $41,200. Marine Engine & Machine Co., 126 Liberty St., New York, (a) $67,593; (b) 50,786; (c) $40,371; alternates: (a 1) $66,153; (b 1) $49,706; (c 1) $39,531; same as original bids with different controller; (a 2) $65,271; (b 2) $49,050; (c 2) $39,019, alternates on single gear.

Bids were received Jan. 12, at the office of the Superintendent of the U. S. Capitol Building and Grounds, Washington, D. C., for furnishing the interior marble work for the rotunda and main stair of the Senate Office Building, as follows: William Bradley & Son, 277 Broadway, New York, $231,000; $239,000; Lee marble from Lee, Mass. Vermont Marble Co., Proctor, Vt., $242,700; $256,700; Rutland, Vt., county quarries. B. A. & G. N. Williams, 5 East 42d St., New York, (a) $262,659; South Dover marble. Batterson & Eisele, Times Bldg., New York, $255,000, $264,696; Lee, Mass., marble. Charles McDonald, 1223 Poplar St., Cincinnati, Ohio, $258,777; $272,777; White Light Cloud marble from quarries in Rutland County, Vermont. Rullman & Wilson, Mount Royal and Lafayette Aves., Baltimore, Md., $225,000; Beaver Dam marble from Cockeysville, Md.

BALTIMORE, MD.—Plans have been prepared for a new church for the Emmanuel Methodist Episcopal Church. Cost, $60,000.

Baldwin & Pennington, Archs., Professional Bldg., have about completed plans for a warehouse for the Board of Public Works. The building will be of reinforced concrete and brick, fireproof and eight stories. Estimated cost, $250,000.

Plans are being prepared by Owens & Sisco, Archs., Continental Trust Bldg., for a warehouse at Front and Exeter Sts., for the Terminal Warehouse Co. It will be of brick and steel construction, four stories, 140 × 140 ft.

BALTIMORE, MD.—Plans have been made for the Pennsylvania R. R. Co., for a large modern depot building at Union Station in Charles St. Cost, $250,000. H. W. Knapp is Gen. Agent, Baltimore; A. C. Shand, Philadelphia, Pa., is Ch. Engr.

NORFOLK, VA.—The Virginia Fireproof Warehouse Corporation, Inc., with a capital stock of $200,000, will erect a 4-story fireproof concrete and brick bonded warehouse on the Higgins property on Water St. The plans call for a building to cost over $100,000. Officers of the company are: John L. Farant, Pres.; W. T. Ham, Vice-Pres.; Julian Osborne, Secy. and Treas. Breese & Mitchell are Archs.

ATLANTA, GA.—Fulton County Commissioners are considering the erection of court-house, to cost $200,000. C. L. Anderson is Chn. of Bd.

ATLANTA, GA.—Bids were opened Jan. 10 at the office of James Knox Taylor, Superv. Arch., Washington, for construction of the foundations of the post-office building and court-house, Atlanta, Ga. Bids were as follows: Richardson & Burgess, Inc., Colorado Bldg., Washington, $49,800; time as specified. Miles & Brodt Co., Atlanta, $46,451; Sept. 1. Ambrose B. Stannard, St. James Bldg., New York, $44,546; time as specified. Guele & Walker, Atlanta, $49,900; 7 1-3 months. Nicholas Ittner, Atlanta, $98,720; 12 months. Grant Wilkins, Atlanta, $72,000; Sept. 1. Henry Smith & Sons Co., Baltimore, $58,820; Sept. 1. Pavarini & Wyne, Munsey Bldg., Washington, $58,900; seven months. Edward Henry, Tipton, Ind., $46,300; Sept. 1. S. T. Warner, Atlanta, $72,000; Aug. 15. Southern States Reinforced Concrete Co., Atlanta, $51,985; Sept. 1.

MONTGOMERY, ALA.—The Gay-Teague Realty Co. has decided to erect a 10-story office building upon its lot at the corner of Bibb and Commerce Sts. The building will be 80 × 100 ft., and will cost about $250,000. W. M. Teague, Mayor, is interested.

ALEXANDRIA, LA.—J. A. Bentley and others will erect a $300,000 hotel here. George R. Mann, of Little Rock, Ark., is Arch.

COLLINS, MISS.—Plans have been prepared for erection of a hotel building by Eugene E. Robertson Land Co. Cost, $200,000.

CHATTANOOGA, TENN.—A passenger terminal station is to be built here by the Chattanooga Station Co. The company has recently filed a mortgage for $1,000,000 to secure funds for investment in this project. The Central of Georgia, the Southern and the Queen & Crescent railways will enter the station.

BRISTOL, TENN.—Theodore Swann, Henry Roberts and associates are arranging for the erection of hotel, to cost $100,000. Site has been purchased and a 5-story building of brick, 100 × 300 ft., will be erected and equipped with electric and gas fixtures, steam heat, electric passenger and freight elevators, etc.

LOUISVILLE, KY.—Bids are asked by Board of Public Works until noon, Jan. 19, for completion of City Hall annex. The building is to be three stories in height, and about 100 × 200 ft. Foundations are in and contract has been let for granite base, making cost to date about $18,000. Bids on Jan. 19 are to include all work necessary to complete the structure above the granite base, and is estimated to cost $160,000. C. A. Curtin, 814 Columbia Bldg., is Arch. Roger G. McGrath is Secy. Board Public Works.

COLUMBUS, OHIO.—It is reported that plans have been prepared by J. J. Jones, Dispatch Bldg., for a residence to be erected for Mrs. M. E. Valentine, at a cost of $100,000.

CLEVELAND, OHIO.—Frank S. Barnum, Supt. of Bldgs. of the School Dept., is reported to have completed preliminary plans of the technical school which is to be erected at East 55th St. and Scovill Ave., at a cost of $250,000.

TOLEDO, OHIO.—Articles of incorporation have been issued to the Interurban Station Co., with a nominal capital stock of $10,000. The incorporators are: John C. Reid, Joseph S. Young, William R. Hodge, William H. McClellan and William F. Nutt. Its purpose is to erect an interurban union passenger station on land that has already been purchased, and which is bounded by Superior, Huron, Beach and Jackson Sts.

CINCINNATI, OHIO.—Plans have been completed by Werner, Adkins & Burton, Archs., for a 12-story building which is to be erected in Ninth and Main Sts., by the Second National Bank. The structure is to be all stone, and will cost in the neighborhood of $250,000. The building will have a frontage in Main St. of 40 ft., running to a depth in Ninth St. of 130 ft.

INDIANAPOLIS, IND.—It is reported that the Merchants Building Co. has been incorporated with a capital of $500,000 to erect a 14-story store and office building at Washington and Meridian Sts.

LAPORTE, IND.—It is reported that plans are being prepared for a hotel building to be erected just west of New Buffalo. Cost, $500,000.

HAMMOND, IND.—A new station, to cost $150,000, will be erected by the Michigan Central R. R. Co. George H. Webb, Detroit, Mich., is Ch. Engr.

SOUTH BEND, IND.—Bids are asked by the School Trustees until Feb. 5, for erecting and completing school building, to be known as the "Kaley School."

DETROIT, MICH.—Plans are being prepared for the extension of the Majestic building. It is proposed to add six stories to the structure, at a cost of about $500,000. E. H. Doyle and Waldo Avery are owners.

EVANSTON, ILL.—George W. Maher, of Chicago, Ill., is preparing plans for a theater to be built at Evanston for the Evanston Theater Co. It will be a 3-story building, of fireproof steel construction, and is estimated to cost $125,000. Work probably will be begun in the spring. Charles A. Wightman, of Evanston, is representative.

CHICAGO, ILL.—Holabird & Roche, Monadnock Bldg., are preparing plans for an office building, to be erected at Michigan Ave. and Van Buren St., for the Vendome Co. It is to be twelve stories, built of brick, stone and terra cotta, of fireproof construction, with steel frame, plate glass, hardwood finish and floors, hard plaster, nickel plumbing, etc. Estimated cost, $800,000.

DES MOINES, IA.—Hallet & Rawson, 615 Walnut St., have prepared plans for a 3-story flat apartment and store building, 132 × 165 ft., which will be erected at the corner of Ninth and Locust Sts. by the Central Improvement Co., which is composed of Robert and John S. Coskery and W. E. and Nat Coffin. The estimated cost of the improvement is $150,000.

MINNEAPOLIS, MINN.—Plans are being prepared for the erection of an 8-story hotel to be erected by the Great Northern Building Co., P. M. Hemstead, Pres. Cost, $500,000.

KANSAS CITY, KAN.—The School Board has instructed W. W. Rose, Arch., to prepare an estimate on the cost of the proposed two new buildings and improvements at the high school. As soon as these estimates are made, a special election will be held to secure the amount of the cost, about $100,000.

LINCOLN, NEB.—It is reported that the University of Nebraska will erect a new engineering building. Estimated cost, $100,000.

OMAHA, NEB.—The Fairbanks & Morse Co., it is reported, has had plans prepared for a 6-story stone, brick and concrete building to be erected at Ninth and Harney Sts., at a cost of $100,000.

GREAT BEND, N. DAK.—It is reported that O. F. Wormer will erect a residence here to cost $200,000.

THERMOPOLIS, WYO.—Plans are being prepared for a sanitarium to be erected at Thermopolis Hot Springs. Estimated cost, $100,000. Dr. A. G. Hamilton is interested.

ST. LOUIS, MO.—The Monarch Investment Co., is it stated, has secured a site at McPherson Ave. and Union Boulevard, and are making plans for erecting a $100,000 apartment house.

KANSAS CITY, MO.—It is reported that Swofford Bros. intend enlarging and improving the Victoria Hotel, at a cost of about $225,000.

ST. JOSEPH, MO.—James Knox Taylor, Superv. Arch., Washington, D. C., has awarded to the OTIS ELEVATOR CO., 17 Battery Pl., New York, contract for furnishing an electric passenger elevator and hydraulic freight lift at the post-office building, St. Joseph, at $8,190.

KANSAS CITY, MO.—It is reported that Wilder & Wright, Dwight Building, have prepared plans which have been accepted by the Directors of the New England National Bank for a banking building to be erected at a cost of $150,000.

KANSAS CITY, MO.—Hucke & Sexton, Archs., Dwight Bldg., are preparing plans for a brick building on Walnut St., at a cost of $300,000, for Jones Bros.

Arrangements are being made for erection of a 12-story addition and three additional stories to present 9-story structure of the Hotel Baltimore. Cost, $600,000. The hotel is owned by Bernard Corrigan, Pres. Metropolitan Street Ry. Co., and estate of Thomas Corrigan.

A. B. Anderson, New York Life Bldg., Kansas City, is preparing plans for a 5-story building, to be erected by J. C. Gates, 117 East Ninth St. The building will be 96 × 115 ft., of mill construction, and will cost $75,000.

ST. LOUIS, MO.—It is reported that construction work will begin at once on 18-story office building, to be erected by the Monetary Realty Co., at a cost of $750,000. Eames & Young, Chestnut and Seventh Sts., St. Louis, are Archs.

The Ely-Walker Dry Goods Co., 800 Washington St., will erect an 8-story warehouse on 16th, Locust and St. Charles Sts. The total cost will be $350,000.

H. F. Roach, Arch., 721 Olive St., has prepared plans for the 18-story building on the northwest corner of Broadway and Olive Sts., for the La Salle Investment Co. W. K. Miltenberger is Pres.

LITTLE ROCK, ARK.—The MURCH BROS. CONSTRUCTION CO., Odd Fellows' Bldg., St. Louis, Mo., has secured the contract for erection of the Union Station to be built in this city by the St. Louis, Iron Mountain & Southern Ry. Co. and the St. Louis & Southwestern Ry. Co. J. S. Berry is Supt. Bridges and Bldgs., St. L. & S. W. Ry. Co., Tyler, Tex. It is understood the superstructure will cost between $250,000 and $300,000.

GEORGETOWN, WASH.—It is reported that C. A. Darner & Co., of Tacoma, have prepared plans and specifications for the car barns and terminals to be erected by Stone & Webster on the Interurban near Georgetown. The building, it is stated, will be of reinforced concrete. It will cost $250,000, and cover about 100,000 sq. ft. of ground. The head offices of Stone & Webster are at 84th St., Boston, Mass.

SEATTLE, WASH.—G. Silbon will erect a 6-story modern apartment house at corner of Broadway and Spruce St., costing from $175,000 to $200,000. The building will have two wings built at right angles; one will be 196 ft. long, and the other 120 ft. The house will be of solid brick construction, and will contain 150 rooms, so built that they can be arranged in three, four, five and six-room apartments. The plans of the building enables every room to have outside windows. In the basement there will be a spacious dining room, and provision is to be made for billiard rooms. There will be an automobile garage, practically fireproof, to be built under the court. Work on the building will be started in the early spring.

PORTLAND, ORE.—E. A. Baldwin, McKay Bldg., and F. O. Downing, Portland Hotel, will erect a 6-story brick office and store building 100x100 ft. at the northeast corner of Park and Alder Sts., to cost $175,000. Whidden & Lewis, 47 Concord Bldg., the architects, are preparing the plans. The columns and girders will be of steel. The structure will have court openings both on Alder St. and in the rear. Mr. Baldwin states that construction work will be pushed as rapidly as possible, and that unless something unforeseen prevents, the building will be completed by next fall. Excavation is now under way.

SAN FRANCISCO, CAL.—It is reported that E. J. Baldwin will build a $200,000 hotel on Lake Tahoe. The new hotel is to be somewhat after the style of El Tovar, in the Grand Canyon of the Colorado.

A. M. Edelman, Arch., 233 South Broadway, Los Angeles, will prepare plans for the Board of Education, San Francisco, for a 16-room school building, to be erected at Schrader and Grattan Sts., to cost $108,000.

H. B. Underhill has filed an application with the Board of Public Works for a permit to erect a Class C building at the corner of Merchant and Montgomery Sts., at a cost of $110,000.

PASADENA, CAL.—WEYMOUTH CROWELL, of Los Angeles, and WILLIAM C. CROWELL, of Pasadena, have secured general contract to construct the 6-story building for the Chamber of Commerce, at Pasadena. Contract price, $130,000.

LOS ANGELES, CAL.—It is reported that the new passenger station to be built by the Los Angeles-Pacific R. R. Co. on the site of the Masonic Temple at Fourth and Hill Sts., will be built of steel, granite and reinforced concrete with terra cotta facing. It is to be 240 × 330 ft., is to have a frontage of 240 ft. on Hill St. and a depth of 340 ft. It is to be eleven stories high, and will cost $1,000,000. The plans provide for 1,700 office rooms, with a floor space of nearly 16 acres. Work will be started within the next few weeks.

Plans have been prepared by Parkinson & Bergstrom, Archs., Braly Block, for a 10-story business block which the Main Street Co. intends to erect on the corner of Sixth and Main Sts. The plans call for a structure to cost about $600,000. The building will be Class A, consisting of steel frame supporting all floors and walls. The exterior will be of pressed brick and terra cotta, and all the windows will be of plate glass. It will have a frontage of 120 ft. on Main St. and 138 ft. on Sixth St., covering the entire lot from Main St. to the alley. The height will be 150 ft., the limit prescribed by the Los Angeles ordinance.

The Masons of Los Angeles will erect a new 3-story structure, to cost about $150,000, at the corner of Pico and Figuero Sts. William D. Stephens, Niles Pease, W. P. Jeffries, John F. Hughes and others are interested.

LOS ANGELES, CAL.—Plans have been prepared by U. O. Lony, Arch., 507 Chamber of Commerce, for an 8-story reinforced concrete apartment house, which it is said a syndicate of Los Angeles capitalists is arranging to erect on one of the corners at Tenth and Hope Sts. The estimated cost of the structure, according to the plans as drawn, is $300,000. The building will contain 300 rooms, divided into two, three and four-room suites, with private baths. It will cover a ground space of 115 × 150 ft. There will be a broad court facing Tenth St., and this will extend back 105 ft. The interior finish will be of mahogany and the exterior will be veneered with cream pressed brick, with terra cotta trimmings.

B. Benton, Arch., 114 Spring St., has plans for a new 8-story Y. M. C. A. building, 100 × 150 ft., on Hope St., between Seventh and Eighth Sts. Estimated cost, $100,000.

SYDNEY, N. S.—A hotel to cost $1,000,000 is to be erected in Sydney. The capital has all been secured. St. John, N. B., men are the largest holders. W. A. McKay, Electrician, Sydney, is the active promoter.

OTTAWA, ONT.—The Grand Trunk R. R. System will erect a new central depot and hotel here, which will be the largest in Canada. C. M. Hays is Gen. Mgr., Montreal, Que.

OTTAWA, ONT.—Plans for the Grand Trunk Hotel and depot, at Ottawa, have been submitted to the government. Estimated cost, $1,000,000.

WINNIPEG, MAN.—The Transcontinental Railway Commission has paid $200,000 for a site east of this city, on which to erect terminals and shops for the Grand Trunk Pacific R. R. C. M. Hays is Gen. Mgr., Montreal, Que.

EDMONTON, ALTA.—The Provincial Government has purchased a site here, on which they will erect an agricultural college in the spring. W. H. Cushing, Calgary, Alta., is interested.

REGINA, SASK.—The ratepayers will vote shortly on a by-law to provide $100,000 for erection of a modern municipal hospital.

VICTORIA, B. C.—Mrs. James Anderson is arranging preliminary plans for erecting a 160-room hotel here in the spring.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

WORCESTER, MASS.—Bids for water pipe gates and valves were opened by George W. Batchelder, Water Comr., Jan. 10. The contracts, which call for about 1,000 tons of pipe, gates, valves and hydrants were not awarded. Gates: Kennedy Iron Co., 20-in. gate, $202; 12-in., $37.50; 8-in., $18; 6-in., $11.25. Chapman Valve Co., 20-in., $141; 12-in., $36.60; 8-in., $18.50; 6-in., $11.50. Ludlow Iron Co., 20-in., $161; 12-in., $34.20; 8-in., $18.90; 6-in., $12.60. Hydrants: Chapman Valve Co., 2-way hydrants, $53.50; 4-way, $61.18; steamer nozzle hydrants, $63.38. Ludlow Iron Co., 2-way, $36; 4-way, $62; steamer nozzles, $56.60. Florence Iron Works, 2-way, $32.50; 4-way, $57.50; steamer nozzles, $50. Pipe: United States Cast Iron & Foundry Co., $34.16 per ton; specials, $60 per ton. Lunchburg Foundry Co., $35.70 for regular work; $34.45 for specials. Warren Foundry & Machine Co., $34.90 for regular work. Drummond Co., $36.50 for small pipe, and $34.30 for big work. Camden Iron Co., $33.50 per ton flat rate.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works until 11 a. m., Jan. 22, for the construction and erection of one vertical turbine type of pump, with electric motor, which must be capable of delivering not less than 25,000,000 gallons of water in 24 hrs. into the city mains against a total head of approximately 200 ft. F. G. Ward is Comr. Dept. Pub. Wks.

NEW YORK, N. Y.—Bids are asked until Jan. 22 by Thomas Darlington, M. D., Pres. Bd. of Health, New York, for furnishing and delivering wrought and c.-i. pipe, and wrought-iron, c.-i. and brass fittings to the Kingston Ave. Hospital, Kingston Ave. and Fenimore St., Boro. Brooklyn.

ATLANTIC CITY, N. J.—It is reported that $300,000 has been appropriated for water-works improvements. Louis Kuehnle is Pres. Bd. Water Comrs.

ASBURY PARK, N. J.—Bids are asked by John L. Coffin, Supt. Dept. Water and Sewers, until noon, Jan. 28, for erecting pump capable of delivering 2,500,000 gallons per 24 hours against a pressure of 75 lbs. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Specifications and proposals for boiler equipment for Lardner's Point pumping station boiler house No. 3 are on file at office of Engineering News, New York. Bids are asked until noon, Feb. 5, by Department of Public Works. Cassius E. Gillette is Ch. Engr., Bureau of Filtration.

The following are reported to be the bids opened on Jan. 4 by the Board of Public Works for pumping engines for Lardner's Point pumping station, No. 3, Contract 93: Allis-Chalmers Co., Milwaukee, Wis., for four pumping engines complete, $553,000; to install first engine complete in 600 calendar days, 2d in 690, 3d in 780 days and 4th in 870 days. Holly Manufacturing Co., 114 Liberty St., New York, N. Y., $496,700 for four engines; time, 500 days for the first, 600 for the 2d, 690 for the 3d, and 780 for the 4th. Stuart Wood, $598,500 for four engines; time, first, 660 days; 2d, 780 days; 3d, 900 days, and 4th, 1,020 days. William Tod Co., Youngstown, Ohio, for all four engines, $517,000, first in 550 days, 2d in 670 days, 3d in 790 days, and 4th in 915 days.

Bids were opened same time and place for coal handling machinery and pockets, for Torresdale pumping station. Contract 88, as follows: Snare & Triest, New York, N. Y., $152,500; David Peoples, Philadelphia, $174,000, and the Filbert Paving & Construction Co., Pittsburg, $123,875. John R. Hathaway is Dir. Bd. Pub. Wks.

TARENTUM, PA.—It is reported that $50,000 will be expended in improving the water-works system.

SCRANTON, PA.—W. P. Boland, Scranton, and associates have organized a new water company at Scranton. Company has purchased over 1,540 acres of land along the south branch of Roaring Creek. It is claimed that the tract can be flooded and a reservoir with a capacity of 3,500,000 gallons per day be constructed.

WASHINGTON, D. C.—Bids are asked until noon, Feb. 2, at room 43, District Building, Washington, D. C., for furnishing 3, 4, 6 and 12-in. cast-iron pipe. Henry B. F. MacFarland, Henry L. West and John Biddle are Comrs. (Advertised, Engineering News.)

VIRGINIA BEACH, VA.—We are officially advised that the town will spend $54,000 for water-works, enlargement of sewer system and for sidewalk paving. B. P. Holland is Mayor.

MIDWAY, W. VA.—It is reported that bids will be asked about Feb. 1 for construction of water-works plant, using a hydraulic ram of 50,000 gallons daily pumping capacity.

ATLANTA, GA.—Park Woodward, Gen. Mgr. Water Wks. Dept., has recommended a new force main from the river to Station No. 2, at least 36-in. in diameter; another coagulating basin; another clear-water basin; a filtering capacity double that of the present; more water mains in the city; a new pump at Station No. 2 with a capacity of 20,000,000 gals., and the issue of $500,000 bonds.

JACKSONVILLE, FLA.—Bids are asked until Feb. 4 by the Trustees for the water-works and improvement bonds of this city for two water-tube boilers, each consisting of 18 sections of 14 tubes each, 18 ft. long, 4 ins. diameter, set in steel headers connected with two steel drums 42 ins. diameter, 20 to 23 ft., 4 ins. long, with cast-iron mud drums, together with all appurtenances, set in position ready for brickwork. R. N. Ellis is Supt. Bd. Water Wks.

LORAIN, OHIO.—The Board of Public Service have received two bids for installing 300-HP. boiler in the new pump house. The Springfield Boiler & Manufacturing Co., Springfield, Ill., $4,097, and D. Connelly Boiler Co., $4,800.

LAFAYETTE, IND.—It is reported that $64,000 has been appropriated for a modern water supply system at the county asylum.

HILLIARDS, MICH.—It is reported the city will expend $30,000 for enlarging its water-works system.

MOUNT PLEASANT, MICH.—The Board of Public Works has adopted plans and specifications for the $20,000 addition to the city water-works and the Council has confirmed the action. A reservoir to hold 500,000 gals. of water is to be constructed. This structure is to be of cement and steel construction, 40 × 110 ft. and 22 ft. deep. The new pumping station will be 30 × 45 ft., built of concrete, brick and steel. In it will be installed a new pump of 1,500,000 gals. capacity, in addition to the three pumps now in the old station. The plans provide for 1,800 ft. of 14-in. force mains to be laid up Broadway from the new pump station to Normal Ave.

MATTOON, ILL.—Bids are asked by the Commissioners of Drainage District 1 B, of Seven Hickory Township, until noon, Jan. 27, for excavating 5,600 lin. ft. open ditch, furnishing and laying 6,000 lin. ft. 30-in. drain tile, 2,000 ft. of 27-in. drain tile, and approximately 3,000 ft. 14-in. and 12-in. drain tile. Claude L. James is City Engr.

BRUCE, WIS.—It is reported that bids will be asked until about Feb. 15 for constructing water-works and sewers. Estimated cost, $10,000. Archie Barrett is City Clk.

MANITOWOC, WIS.—The City Council has asked for plans for constructing a water-works plant. John S. Unger is City Engr.

CRESTON, IOWA.—The city has decided to buy a new $50,000 pump for the Main St. pumping station.

SPARTA, WIS.—It is reported that about $8,000 will be expended to secure water for domestic use and fire protection at County Farm. There will be a 50,000-gallon tank, 90-ft. tower, pipe, etc. J. W. Leverich is Chn. County Comrs.

INDIANOLA, IOWA.—The Indianola Power & Heating Co. of this city, has been granted franchise for a water system.

MINNEAPOLIS, MINN.—The contracts for water-works material were awarded Jan. 11 as follows: 1,942 tons cast-iron pipe, to UNITED STATES CAST-IRON PIPE & FOUNDRY CO., at $37.10 per ton. 125 tons special castings to the N. W. FOUNDRY CO., Minneapolis, at $3.00 per cwt. 140 D. S. hydrants to CAMDEN IRON WORKS, Camden, N. J., at $41.75 each, with frost covers. 2,000 ft. of riveted steel pipe to WILLIAMS BROS., Minneapolis, at $65.00. All proposals for valves were rejected and other bids are asked until Jan. 25. Andrew Rinker is City Engr.

ORTONVILLE, MINN.—Bids will soon be asked by the County Auditor for constructing the third ditch of the system of ditches projected for the drainage of the central part of Big Stone county. Estimated cost, $30,000.

OSWEGO, KAN.—Bids are asked until 8 p. m., Jan. 22, for cast-iron pipe, hydrants and valves.

Bids are asked until 8 p. m., Feb. 19, for labor, steam pumps, boilers, reservoirs and buildings. Judge Nelson Case is Chn. Water Comm. M. A. Earl & Co., Muskogee, Ind. T., are Engrs.

CALLAWAY, NEB.—The contract has been let to NATIONAL CONSTRUCTION CO., South Bend, Ind., for construction of a new water-works system.

CRAWFORD, NEB.—Bids are asked by the United States Reclamation Service until 2 p. m., Feb. 27, for building the Pathfinder Dike, situated about 45 miles southwest of Casper, Wyo., and involving about 170,000 cu. yds. of earth excavation and about 16,000 cu. yds. of riprap. E. A. Hitchcock is Secy. (Advertised, Engineering News.)

LAKE ANDES, S. DAK.—Contract for erecting new water-works system at this city has been awarded to W. L. BRUCE, of Yankton, at $7,895.

HUNTLEY, MONT.—Bids are asked until 10 a. m., March 12, at the office of the U. S. Reclamation Service, Huntley, for constructing 185 miles of canals, ranging in capacity from 5 to 1,000 cu. ft. a second, involving approximately 900,000 cu. yds. of excavation. E. A. Hitchcock is Secy. (Advertised, Engineering News.)

BILLINGS, MONT.—Bids were recently opened by the engineers of the Reclamation Service at Billings, for furnishing and installing high pressure gates for the Shoshone and Pathfinder Dams, Shoshone and North Platte irrigation project, Wyo. The New Jersey Foundry & Machine Co., 9 Murray St., New York, was the only firm that submitted bids. The price named for the Shoshone gates was $59,166, and that for the Pathfinder dam, North Platte irrigation project, $78,567, the time required for completing the installation being 515 days after signing of the contract. The Secretary of the Interior rejected the bids as too high and authorized the engineers to receive informal proposals for the manufacture and installation of the gates.

CARTHAGE, MO.—This city will soon vote on issuing bonds for water-works plant. Plans and specifications have already been prepared by Burns & McDonnell, Hydraulic Engrs., Dwight Bldg., Kansas City, Mo. J. S. Ross is Chn. Water Com.

CALIFORNIA, MO.—The contract for digging well 1,000 ft. deep, cased with 8¼-in. casing, has been awarded to BAILEY & WAUGH, Pittsburg, Kan. Contracts for other portions of the work will not be let until spring.

CHILLICOTHE, MO.—Plans, specifications and estimates are being prepared by Burns & McDonnell, Kansas City, for a combined water-works and lighting plant. The city will vote Jan. 29 for issuing $100,000 in bonds for this purpose.

KANSAS CITY, MO.—The Metropolitan Water Co. will expend $600,000 for improving its plant. Lee Riley is Supt.

ROLLA, MO.—W. R. COMPTON MORTGAGE & BONDING CO., Macon, was awarded contract on Jan. 17 for water-works bonds at $48,966, Little & Hays, St. Louis, bid $48,875, and N. W. Harris, Chicago, bid $48,821. Specifications for water-works system have not been issued yet. McRae & Harris, of Rolla, are Engrs.

BROWNESVILLE, TEX.—This city is considering erecting a water-works and electric lighting system. Estimated cost, $75,000. F. Champion is City Secy.

NEW BRAUNFELS, TEX.—The city has voted to purchase the Comal River Springs, with a flow of about 2,000,000 gallons of water in 24 hours, and 20 acres of land. It is proposed to use this as a source of supply, furnishing the city with water.

MANSFIELD, TEX.—The Mansfield Water-Works have been chartered here by H. and DeWitt Waldo and Joseph Edwards.

DEWEY, IND. T.—We are officially advised that the SOUTHWESTERN BRIDGE CO., of Joplin, Mo., has been awarded the contract for a 100,000-gallon tank and tower to be erected at the plant of the Dewey Portland Cement Co., Dewey. Contract was awarded by Tyler & Co., which company is constructing this work.

GREELEY, COLO.—The Platte Land Co. and a number of Kersey capitalists will build a $100,000 reservoir nine miles south of here in the vicinity of Beebe draw, from which water will be taken to irrigate 15,000 acres lying directly south of Kersey, between the Platte River and Box Elder Creek. The reservoir site is a natural one, only needing a dam 400 ft. long to complete it, and when filled will be 26 ft. deep and two miles across.

PUEBLO, COLO.—Three proposals have been received at Washington, D. C., by the engineer in charge of the Belle Fourche irrigation project in South Dakota for making portal cutoffs in the tunnel to be constructed in a section of the South Canal. The lowest bid was that of ORMON & CROOK, Pueblo, at $20,825, and the Secretary of the Interior authorized a contract to be entered into with this firm. According to the terms and conditions of its bid, the work is to be finished by April 15, 1907.

DENVER, COLO.—The Mountain Reservoirs Co. has been organized and will operate several reservoirs in Clear Creek, Jefferson and Arapahoe Counties, known as Loch Lomond, Lake Caroline, Lake Stewart, Ohman Lake, Ice Lake, Chinn's Lake and Fall River Reservoir. Water will be taken from Fall River, Clear Creek and the Agricultural Ditch.

SPOKANE, WASH.—Contract for erection of a pumping plant at Hayden Lake has been let by the Interstate Irrigation Co., which owns 2,000 acres of land at the lake. The equipment of the plant will cost $25,000 and will consist of a 300-HP. engine and two pumps, with a capacity of 3,500 gallons per minute each. Besides the pumping plant there has been ordered $23,000 worth of wood pipe, of which 40,000 ft. will be 4-in. pipe for domestic use, and 12,000 ft. for the irrigation main. The contract for the lateral mains has not been awarded.

PORTLAND, ORE.—We are officially advised that the following bids were received Dec. 26 for 1,800,000 lbs. of reinforcing steel for the Tieton project, Wash.: Crucible Steel Co. of America, Pittsburg, Pa., f. o. b. Pittsburg, $54,382; General Fireproofing Co., Youngstown, Ohio, f. o. b. Portland, $55,218, and $41,769 f. o. b. Youngstown, and the Expanded Metal & Car Bar Co., St. Louis, Mo., f. o. b. Youngstown or Pueblo, Colo., $38,316. The bid of the American Steel & Wire Co., Pittsburg, Pa., was incomplete.

REDDING, CAL.—M. H. Dann, of Grass Valley, Cal., has filed on 50,000 ins. of water to be taken from Hat Creek. The water is to be used for commercial purposes at a point one mile from the falls, and is to be diverted by means of a dam and ditch 40 ft. wide and 12 ft. deep.

BOISSEVAIN, MAN.—The plans prepared by Cecil Goddard, C. E., Winnipeg, Man., for water-works and sewerage system in this city have been accepted. Estimated cost, $176,000.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 3 p. m., Jan. 28, for furnishing all the labor and material required for building sewer and appurtenances in East Tenth St., between East River and Ave. D.

SYRACUSE, N. Y.—The Common Council has adopted ordinances for improving a number of city streets by constructing sewers, etc. George J. Metz is City Clk. F. J. Schnauber is City Engr.

ASBURY PARK, N. J.—Bids are asked by the Department of Water and Sewers until noon, Jan. 26, for constructing about two miles of pipe sewers. John L. Coffin is Supt. Dept. Water and Sewers. (Advertised, Engineering News.)

JERSEY CITY, N. J.—The contract for laying sewer in Rock St. has been awarded to PHILIP O'REILLY. Charles Van Keuren is Ch. Engr., Street and Water Bd.

ORANGE. N. J.—It is reported that bids are asked until Feb. 4 by the Common Council, for sewer pumps in Chestnut St. pumping station.

MERCHANTVILLE, N. J.—The contract for constructing a system of sanitary sewers in this city has been awarded to S. HEWITT & CO., New York. A. W. MacCallum, 26 South Third St., Philadelphia, Pa., is Ch. Sewerage Com.

MARION, OHIO.—Bids are asked by Board of Public Service until noon, Feb. 1, for furnishing the necessary labor and material for a sanitary sewer and cellar drain on Blaine Ave., south of Columbia St., 180 ft. from present terminal of sewer. William Fies is Clk. Bd. Pub. Service.

LORAIN, OHIO.—The contract for the Penfield Ave. sewer has been awarded to GLOVER & BURKE, at $5,102. J. B. Nichols is City Engr.

SPRINGFIELD, OHIO.—It is reported that 66 short sewers will be constructed to connect with present system. W. H. Sieverling is City Engr.

ST. MARYS. OHIO.—Bids are asked by Board of Public Service until Jan. 30, for constructing 16 miles of sewers. Bids are also asked at the same time for constructing sewage disposal plant, pumping station and pumping machinery. H. W. Stearns is Clk. Bd. Pub. Service. The Riggs & Sherman Co., Toledo, are Engrs.

GREENTOWN, IND.—It is reported that a sewer system will be constructed in this city. Cost, $50,000.

NEW ALBANY, IND.—Bids are asked by the Board of Public Works for constructing new sewers in Culbertons Ave. S. T. Mann is City Engr.

KOKOMO, IND.—Bids are asked by the National Mitten Co. for constructing 932 ft. vitrified tile sewer.

HART, MICH.—Bids are asked until Jan. 26 for completing the Water St. sewer, a distance of about 1,600 ft., depth 7 ft.; digging ditch, covering and [illegible]g 15-in. tile. Tile will be furnished [illegible] Dayharsh is Village Clk.

MUSKEGON, MICH.—S[illegible] bids were received on Jan. 7 for th[illegible]g St. sewer system. The lowest tota[illegible]r was W. R. Jones, of this city, at $[illegible] for a brick sewer, and the highest [illegible]rank Osborn, of Bay City, at $75,000 f[illegible] concrete block sewer. The other bid[illegible] were E. W. Kreuger, Muskegon; A. [illegible]chreite Co., Cleveland, Ohio; O. J. [illegible]nter, Grand Rapids, Mich.; W. H. [illegible]rn, Chicago, Ill., and E. R. Harding, [illegible] Wis. Clifford S. Gamble is City [illegible]

STREATOR, ILL.—Bids [illegible] asked until Jan. 22 by George Clay, [illegible] Clk., for constructing 1,840 ft. of 4-[illegible]d 17 ft. of 2-in. sewers.

CLINTON, IOWA.—The [illegible]PLES CONSTRUCTION CO. has bee[illegible] contract for new sewers in this city. [illegible]es P. Chase is City Engr.

MINNEAPOLIS, MINN[illegible] are asked by L. A. Lydiard, City Clk[illegible] Jan. 25, for the following material [illegible] sewers: 5,000 bbls. Portland cement; 5[illegible] bbls. natural cement; 2,000,000 sewer [illegible] 200 tons special castings and vitrifi[illegible]y pipe. Andrew Rinker is City Engr.

WEBB CITY, MO.—The [illegible]act for constructing 2,424 ft. of 8[illegible] pipe sewers, average cut 7½ ft., has [illegible] awarded to C. M. GRAY, Cainesville, [illegible] at $3,878.

LITTLE ROCK, ARK.—Co[illegible]act for constructing sewers in District [illegible] has been let to JOSEPH McCOPPIN, at [illegible],453.

BERKELEY, CAL.—THO[illegible]AS GILSEMAN has been awarded [illegible]act to construct the San Pablo Ave. [illegible]d Bristol St. sewers. MICHAEL HEAFY [illegible]s the contract for the Milvia St. and Shattuck Ave. sewers. MIKE MURPHY ha[illegible] been let the contract for the Le Roy Ave. and Rose St. sewer. C. L. Huggins is City Engr.

SAN FRANCISCO, CAL.—The BURRELL CONSTRUCTION CO., of th[illegible]ty, has been awarded contract for new [illegible]wers in Market St.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW HAVEN, CONN.—The Board of Health held a special meeting on Jan. 8, and voted to award the contract for the collection of garbage during the coming year to ARTHUR FARNHAM, of Westville, and ROBERT DALEY, providing they can guarantee proper service. The price to be paid is $11,000.

NEW LONDON, CONN.—The contract for collection of ashes and dry garbage has been awarded to EDWARD NEILAN, 43 Belden St., for $4,400. Mr. Neilan will have the use of three carts owned by the city and to pay for them $50. The collection of animal and vegetable garbage and the street sweeping contract has been awarded to ALEXANDER J. CONNOR, 607 Bank St., for $4,940. He will pay $100 rental for the city's wagons.

NEW YORK, N. Y.—Bids are asked by M. Craven, Comr. of Street Cleaning, until noon Jan. 29, for furnishing all the labor and materials required to construct and erect two water tubular boilers in addition to those now in use at the Delancey Slip incinerating plant.

ROCHESTER, N. Y.—It is reported that the Board of Estimate has purchased, near Vincent St., a site for a refuse destructor, to be constructed by the city. Refuse only will be destroyed here. Edwin A. Fisher is City Engr.

WILKES-BARRE, PA.—It is reported that a garbage crematory will be constructed in this city. Alfred Hand is City Engr.

CHARLESTON, W. VA.—Council has under consideration the erection of a crematory to replace the present one. Estimated cost, $4,500.

KNOXVILLE, TENN.—The question of constructing a garbage crematory is reported under consideration here. J. P. Hackney is City Health Officer.

EL PASO, TEX.—The city is considering the establishment of an incinerating plant, and the sanitary committee of the Board of Health will report on the cost at the next meeting.

OKLAHOMA CITY, OKLA.—The Oklahoma Garbage Reduction Co. has been incorporated with $10,000 capital stock by F. B. Owen, William Toan and Dr. A. A. Will.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

HOLYOKE, MASS.—Bids are asked until 1.30 p. m., Feb. 1, for furnishing and delivering one 12-ton steam roller and taking one Buffalo-Pitts roller in exchange. Specifications are on file at office of Engineering News, New York. Michael F. Walsh, Chn. Bd. Pub. Works. (Advertised, Engineering News.

AMITYVILLE (L. I.), N. Y.—HENRY J. MULLEN, Jamaica, has been awarded contract for macadamizing Broadway, at $10,098. There were four other bidders. Andrews Bros., Mineola, $13,570; W. Roe Jones & B. B. Wood, $11,267; Russell Constructing Co., $11,649; Amityville Cement Works & Architectural Co., $11,899.

BUFFALO, N. Y.—Bids are asked until Jan. 22 by F. G. Ward, Comr. Pub. Wks., for paving a portion of Love[illegible] St. and repaving Wadsworth and Maryl[illegible] Sts.

BUFFALO, N. Y.—A resolution has been adopted by the Common Council to pave South Park Ave. 4 ft. wider [illegible]n each side of the proposed repaving (so [illegible] to create a width of 40 ft. between curbs) from Richfield Ave. to Devonshire Ave. and from Marilla St. to Downing St. A resolution has also been adopted to repave South Park Ave. 32 ft. wide, and to pave 4 ft. wider on each side, so as to create a width of 40 ft. between curbs, from Triangle St. to the City Line, except the space occupied by the street railway tracks and two ft. outside the same. The Commissioner of Public Works has been directed to prepare plans and specifications and advertise for bids for doing work with each kind of pavement.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., Jan. 21, for furnishing all materials and performing all work necessary for the following: Improvement of Teunis St. from the south line of Third Ave. to the north line of Second Ave. This work includes grading, curbing and paving the carriageway with vitrified paving blocks, repairing and laying sidewalks with flags and vitrified bricks and building receiving basins.

Improvement of South Lansing St. from the west line of Broadway to the east line of Franklin St. This work includes grading, curbing and paving the carriageway with vitrified paving blocks, repairing and laying sidewalks with flags and vitrified bricks, building receiving basins and laying a vitrified pipe sewer under the carriageway.

Bids are also asked at the same time for the removal of street dirt; for one or more mounted spraying outfits for the Bureau of Parks; for 2,000 cu. yds., more or less, ¾- and ½-in. trap rock for the Bureau of Parks; for 1,000 cu. yds., more or less of ¼-in. gravel for the Bureau of Parks; and for unloading, hauling and delivery of trap rock, gravel and ashes for the Bureau of Parks. Walter Melius is City Engr.

NEW YORK, N. Y.—The following bids were received Jan. 9 for paving South St. from Whitehall St. to Corlears St. with granite blocks: Asphalt Construction Co., 207 Broadway, $261,647; C. W. Collins, Fordham, $253,259; M. Baird Construction Co., 432 East 92d St., $249,873; M. Fitzgerald, 312 West 143d St., $265,316; Atlanta Construction Co., 432 East 91st St., $252,420; John M. Sheehan, $233,153; John E. Quinn, 466 East 15th St., Brooklyn, $237,861, and W. T. Fitzgerald, 539 West 45th St., $216,500. The following bids were also received at the same time for paving West St. from Battery Pl. to Gansevoort St. with granite blocks: W. J. Fitzgerald, 539 West 45th St., $224,225; John M. Sheehan, $245,031; United States & Venezuela Co., 1 Broadway, $254,067; Atlanta Construction Co., 432 East 91st St., $260,623; M. Fitzgerald, 312 West 143d St., $263,332; C. W. Collins, Fordham, $262,706; Asphalt Construction Co., 207 Broadway, $266,657; City Excavating & Construction Co., $296,331; M. Baird Construction Co., 432 East 92d St., $304,241, and T. V. Smith Construction Co., 147 East 125th St., $312,224.

SYRACUSE, N. Y.—It is reported that Danforth St. will be paved with brick or asphalt from North Salina to North Alvord Sts. F. J. Schnauber is City Engr.

ALLEGHENY, PA.—The contract for grading and paving Pike Alley has been awarded to A. V. PURNELL, of this city.

DANVILLE, PA.—Berghaus & Moffit, Harrisburg, were the lowest bidders for contract to pave and macadamize part of Mill St. Other bidders were the Shamokin Construction Co., Shamokin, and James L. Frazier, Philadelphia.

PHILADELPHIA, PA.—Contract for the maintenance of unpaved and macadamized public highways has been awarded to DAVID PEOPLES, Betz Bldg., City. The total bid was $144,000 for maintaining all unpaved and macadamized highways during 1907 and furnishing, spreading and rolling of 60,000 tons of broken stone on macadam roads. J. A. Hunter is Ch. Bureau of Highways.

TITUSVILLE, PA.—The contract for 1,400 sq. yds. brick paving on Mechanic St. has been let to CHARLES J. WARD. H. A. Holstein is City Engr.

CANONSBURG, PA.—The contract for paving with brick three ½-mile sections in North Strabane Township has been let to PHILLIPS, TAYLOR & MOLLENAUER, of this city at 40 cts. per cu. yd. for grading and excavating, and $1.35 per sq. yd. for paving.

NORFOLK, VA.—SANDS, LAWSON & KEY have been awarded contract at $29,000 for paving Church St. through Huntersville to Norfolk & Western Ry. Co. tracks.

NORFOLK, VA.—The contract for macadamizing Colley Ave. was awarded Jan. 10 to the SOUTHERN CONSTRUCTION CO., at $21,059. The following bids were received at the same time for paving: Barber Asphalt Co., Philadelphia, $1.90 per ½-sq. yd. for asphalt paving, with the alternative bid of $2.02 per sq. yd. for bitulithic; Southern Construction Co., $1.95 per sq. yd. for asphalt paving; the Atlantic Bitulithic Co., Spartanburg, S. C., $2.25 per sq. yd. for bitulithic, with a promise on the part of the company of giving a bonus of $5,000 to help defray the expenses of the boulevard. W. T. Brooke is City Engr.

BESSEMER, ALA.—Bids are asked until Jan. 29 for constructing about 12,000 yds. of cement sidewalk. William Hugh McEniry is City Engr.

BIRMINGHAM, ALA.—The Street Committee has awarded the following contracts for street paving: To the SOUTHERN BITULITHIC CO., Nashville, Tenn., work under Ordinances 339 and 340, at $47,066; to BIRMINGHAM CONTRACTING & PAVING CO., work under Ordinance 361, at $7,848.

KNOXVILLE TENN.—The SOUTHERN BITULITHIC CO., Nashville, has been awarded contract for street paving in this city. Estimated cost, $20,000. W. C. Crozer is City Engr.

LOUISVILLE, KY.—The Board of Public Works has under consideration the rebuilding of Fourth Ave. with asphalt. Joseph P. Claybrook is City Engr.

LOCKLAND, OHIO.—Grand Ave. is to be improved. Ordinances have been passed providing for paving and improving several other streets.

CINCINNATI, OHIO.—Bids are asked until noon, Jan. 25, by the Board of Public Service for paving 5,500 sq. yds. with asphalt on Poplar St. Estimated cost, $16,466.

Bids are also asked until noon, Jan. 31, for paving part of Colerain Ave. Estimated cost, $67,286.

Moran & Springmeier, 2812 Erie Ave., were the lowest bidders for paving with brick 1,360 sq. yds. on Lawrence Alley at $4,795. Wm. Fogarty, 2550 Burnet Ave., was low bidder at $5,400 for paving with brick 1,690 sq. yds. on Euclid Ave. B. Michaus, 39 Corry St., was low bidder at $11,512 for 1,550 sq. yds. of broken stone paving on Fifth Ave. The Kirchner Construction Co., Enghth and Plum Sts., were low bidders on 7,700 sq. yds. of asphalt paving on Betts St.

BELLEVUE, OHIO.—The improvement of Castalia St. by paving is to be undertaken early in the coming season.

AKRON, OHIO.—The following bids have been received for paving North Howard St. with brick on sand or gravel base: Barnett & O'Marr, $21,813; James Wildes, $22,885; McAllonan Bros., $21,323, and E. McShaffrey & Son, $23,377, all Akron contractors. J. W. Payne is City Engr.

CLEVELAND, OHIO.—Twenty-three paving contracts have been awarded as follows. MICHAEL KAVANAGH, $1,533; STANDARD PAVING CO. (nine bids), $31,459; BALDWIN BROS. & GRAHAM (three), $17,477; CLEVELAND TRINIDAD PAVING CO. (two), $80,168; ROEHL BROS. (five), $26,808; NORTHERN PAVING CO. (three), $26,246.

TOLEDO, OHIO.—JAMES SHEEHAN has been awarded contracts for paving several streets in this city.

CLEVELAND, OHIO.—Twenty-three contracts for paving have been awarded by the Board of Public Service. The remaining 19 were not awarded as the bids were too high. The largest of the contracts awarded relates to paving Detroit Ave. N. W. from West 58th St. to Highland Ave., excluding the grade crossings. The CLEVELAND TRINIDAD PAVING CO. was awarded this contract for $80,000.

WAUSEON, OHIO.—Bids are asked until early in February for paving North Fulton St. Plans have been prepared by the Riggs & Sherman Co., Engrs., Toledo. J. S. Bailey is Mayor.

FRANKLIN, IND.—This city will soon let contract for about ¾ mile of No. 1 alley brick paving. It is also contemplated to pave eight blocks on East Jefferson and eight blocks on West Jefferson Sts.; using No. 1 alley brick. City will be ready for figures in the early spring. Thos. D. House is City Clk.

LOGANSPORT, IND.—Bids are asked by the Cass County Commissioners until 10 a. m., Feb. 6, for constructing the Shanter gravel road on the county line between Cass County and Miami County. George N. Cann is County Audr.

BLOOMFIELD, IND.—Bids are asked by the Green County Commissioners until 1.30 p. m., Feb. 5, for constructing a gravel and macadamized road in Wright Township. Peter M. Cook is County Audr.

KNOX, IND.—The contract for constructing Saupiere and Wheatfield gravel roads in Railroad Township has been awarded to J. P. QUIGLEY, of this city, for $3,987. Lee M. Rausbottom is County Audr.

EVANSVILLE, IND.—The INDIANA PAVING BRICK CO. has been awarded contract for new paving to be done in this city.

INDIANAPOLIS, IND.—Bids are asked until Jan. 24 by Board of Public Works for grading, graveling, rolling the roadway, guttering, grading and sodding lawns of the following streets: Indianapolis Ave., two squares; Douglass St., four blocks; Catterson St., eleven squares; Indiana Ave., four blocks; 23d St., five blocks; Missouri St., five squares, and for grading and graveling the first alley east of New Jersey St. from 21st St. to Fall Creek; first alley south of 13th St., five blocks. Blaine H. Miller is City Engr.

PRINCETON, IND.—Bids are asked until Feb. 1 by the County Commissioners for constructing eleven miles of gravel road. H. P. Embree is County Audr.

VALPARAISO, IND.—Bids are asked until March 8 for constructing cement curbing and gutters on Morgan, Michigan and Water Sts. Robert Ewing is City Clk.

PARIS, ILL.—I. N. Doughty, Engr. of the Paris Traction Co., advises us that company has obtained franchise and that work has been started on local street railway system. Contract for 6,000 ft. of track in brick pavement will be let soon.

JACKSONVILLE, ILL.—This city contemplates two miles of brick paving on 6-in. concrete foundation, with concrete curb and gutter; also three blocks of brick paving, on 6-in. concrete base, in the spring. S. B. Stewart is City Clk.

SPRINGFIELD, ILL.—The following contracts have been awarded: BARBER ASPHALT CO., paving Park St. from Wayne to Ford, $29,510; paving Tecumseh St. from Sixth to Green, $3,568; paving Broadway from Wolf Creek to Lexington, $32,580, and J. E. CONLEY CO., paving Broadway from Fifth to Wolf Creek, $22,314; WILLIAM McCARTHY CO., laying sanitary sewer in District No. 4, bounded by Wayne, Wyoming, St. Paul, Pennsylvania tracks, Linden, Fifth and alley east of McReynolds and Richard, $57,792.

This contract the William McCarthy Co. assigned to Hoglen & Gephart, this city, on account of their having their hands full with the big storm sewer contract.

EAST ST. LOUIS, ILL.—Bids are asked by the Board of Local Improvements until noon, Jan. 28, for construction of the local improvement of 13th St. from the northerly line of St. Clair Ave to the southerly line of Nectar Ave. by sewering, filling, grading, curbing and paving with brick. W. J. [illegible]ecken is City Engr.

DES MOINES, IOWA.—The BARBER ASPHALT PAVING CO. has been awarded contract for paving in this city. George D. Dobson is City Engr.

MINNEAPOLIS, MINN.—Bids are asked until Jan. 25 for the following material for paving and curbing: 15,000 bbls. Portland cement, 10,000 sq. yds. cedar blocks, 40,000 sq. yds. sandstone blocks, 45,000 sq. yds. creosoted blocks, 40,000 sq. yds. vitrified blocks, 2,000 cu. yds. crushed granite, 5,000 lin. ft. granite curb and 10,000 lin. ft. sandstone curb. Ellis R. Dutton is Asst. City Engr.

JOPLIN, MO.—The contract for macadamizing Marion Ave., this city, has been awarded to B. C. MAHONEY.

CUSTER, MONT. — The CLEMENT-STRANGE CONSTRUCTING CO., Salt Lake City, have been awarded two contracts for grading line of the Chicago, Milwaukee & St. Paul Ry. Co. One contract includes a stretch north of the Yellowstone River about 35 miles north of this city. The other piece of work is near Forsythe. The two contracts involve seven miles of heavy rock work, and about 500,000 cu. yds. of dirt must be moved.

LITTLE ROCK, ARK.—The city will let contracts for $200,000 worth of additional street paving during January and February.

GALVESTON, TEX.—KELSO & VAUTRIN of this city, have been awarded the contract for paving Tremont St. C. G. Wells is City Engr.

DENISON, TEX.—Bids are asked by the City Council until Feb. 7 for 20,000 sq. yds. vitrified brick paving on Main St. J. D. Yokom is City Secy. R. I. Parks is City Engr.

OKLAHOMA CITY, OKLA.—F. L. ADAMS & CO. have been awarded the contract to grade Central, Walnut, Stiles, Geary and Meade Aves., the price for excavating to be 20 cts. per cu. yd.

ARDMORE, IND. T.—The contract has been awarded to the McQUARTERS PLUMBING & MACHINERY CO., of this city, for paving and grading certain streets.

BARTLESVILLE, IND. T.—Bids are asked by William T. Sidell, Mayor, until Jan. 29 for constructing about 16,000 sq. yds. vitrified brick paving. W. H. Whaley is City Engr.

WEST SEATTLE, WASH.—Improvements will be made to the roads and walks at an expense of $60,000.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

SACO, ME.—The York Mfg. Co. is making plans to build a mill, to be located on the easterly side of Main St. at the top of York Hill. The new building will be connected with the new No. 4 extension by an overhead runway, which will cross the street. The erection of a new boiler house and the installation of a $20,000 electric generator are additional improvements to be made in the York mills plant this year.

AUGUSTA, ME.—The Pepperell Mfg. Co., of Biddeford, contemplates an addition to the No. 2 mill of its Laconia Division, to relieve the congestion of its machinery. The addition may be started in the spring. No addition in the equipment is planned. Brick from the old gasometer, which was recently torn down, will be used in the construction.

BOSTON, MASS.—The International Fibre Co. will erect a plant, to include a main building, 125 × 350 ft., two wings, 100 × 650 ft., and two buildings, 100 × 350 ft. All these buildings will be six stories high. Fred. S. Hinds, 19 Milk St., has been engaged as Consult. Arch. and Mechanical Engr.

NEW BEDFORD, MASS.—Plans have been prepared for an addition to the Grinnell mill, and bids are to be submitted at once for the building. It will be a weave mill, and will greatly augment the capacity of the present plant. English machinery manufacturers are so burdened with orders that some of them will not undertake to deliver spinning machinery under 18 months. Most of the looms used here are of American manufacture, and there is less difficulty in securing prompt delivery.

WORCESTER, MASS.—A 1-story factory, 90 × 170 ft., at Parker and Dewey Sts., will be erected by J. E. Snyder & Sons, 100 Herman St.

BRIDGEPORT, CONN.—The Harvey Hubbell Co., manufacturers of machine screws and electrical specialties, has perfected plans for an additional factory building. The structure will be of reinforced concrete, 52 × 115 ft., four stories high, with basement, and construction will begin March 1.

NEW YORK, N. Y.—A 5-story brick factory, 125 × 100 ft., on Leggett Ave., will be erected by the Pease Piano Co., 128 West 42d St. Cost, $600,000. F. D. Hill, 1 Broadway, is Arch.

JAMESTOWN, N. Y.—A new plant will be erected by the American Metal Door Co., which is incorporated with a capital stock of $100,000. Nels Sjohrings and others are incorporators.

ROCHESTER, N. Y.—A reinforced concrete factory will be erected by the Selden Motor Vehicle Co., which is incorporated with a capital of $500,000. George B. Selden is Pres., 58 Reynolds Arcade, Rochester; Lewis A. Fisher is Vice-Pres., Niagara and Auburn Aves., and R. H. Salmons is Secy., 146 Rutgers, Rochester.

ALBANY, N. Y.—According to a statement given out by James MacMartin, Ch. Engr., the Delaware & Hudson Co. is planning to construct a rectangular engine-house and other conveniences on the east side of the Albany-Troy road, just north of the Albany city line. The proposed building will be 260 × 240 ft., extending nearly due east and west, and will contain 38 stalls, with a transfer table running through it in the middle lengthwise. A turn-table measuring about 76 ft. in length will be located just south of the engine-house. A cinder pit will be constructed where six engines may be accommodated at one time. Two wooden water tanks with capacity of 50,000 gallons each, also will be erected. A mechanical coaling station, measuring about 75 ft. in height and with a capacity of 400 tons, will be built. This structure will be of the latest type, the coal being elevated by a moving chain of buckets and the engines will be coaled directly through chutes from the bins. The old signal works building, near this location, will be transformed into a coach paint-shop, and will be used also for the storage of coaches. It is reported that the company intends to expend over $200,000 on this improvement. James MacMartin, Albany, N. Y., is Ch. Engr. of the company.

BUFFALO, N. Y.—Plans for a brick office and factory, to cost $30,000, have been filed in the Bureau of Building by Cecil Lightfoot. The building is to be erected at 155 to 185 Chandler St.

SYRACUSE, N. Y.—We are officially advised that contracts for constructing factory building for Elgin A. Simonds Co. have been awarded to O'CONNOR BROS. and C. J. SMITH, of Syracuse.

BAYONNE, N. J.—The H. F. Taintor Mfg. Co., 200 Water St., New York, N. Y., awarded general contract to JOHN W. FERGUSON CO., Paterson, N. J., for erecting four new manufacturing buildings.

CHESTER, PA.—Kresky & Clymer, of Newark, N. J., have closed negotiations for the purchase of the Ridley Park Coal & Lumber Co.'s property, and will erect a large woolen mill and a number of houses for their employees.

PHILADELPHIA, PA.—Wolf Bros. have commissioned Stearns & Castor, Stephen Girard Bldg., to prepare plans for a 10-story brick manufacturing building on Twelfth and Callowhill Sts. Cost, $200,000.

Plans are being prepared by Watson, Huckie & Co., 1211 Walnut St., for a 4-story garage, 53 × 200 ft., at 216 North Broad St., for the Keystone Motor Car Co. Estimated cost, $125,000.

Miller Bros. & Co. will erect a 6-story factory on Twelfth and Spring Garden Sts. Estimated cost, $100,000.

CARNEGIE, PA.—The McClintic-Marshall Construction Co., Park Bldg., Pittsburg, Pa., will build a large addition to its plant at Carnegie.

BUTLER, PA.—The contract for the erection of the car shops and barns of the Pittsburg & Butler Street Car Co. at Mars has been awarded to J. S. CLARK for $60,000.

PITTSBURG, PA.—GEORGE HOGG, of Braddock, is reported to have secured the contract for erecting a $250,000 factory for the Pittsburg Gage & Supply Co., at Liberty Ave. and 30th St.

BRADFORD, PA.—S. D. Winters, of Bradford, is preparing plans for rebuilding the confectionery plant of Boyle & Williams, on Webster St., recently burned. The new building will be 4-story, 80 × 80 ft. Estimated cost of work, $30,000.

COLUMBIA, PA.—C. H. A. Dissinger & Bro., of Wrightsville, manufacturers of gas and gasoline engines, propose erecting a new plant at Columbia, to cost about $10,000. The building will be 60 × 200 ft., and the power plant will have a capacity of 50 HP.

SCRANTON, PA.—It has been announced that the Delaware, Lackawanna & Western R. R. Co. will build $2,000,000 locomotive shops in this city. The new shops, it is said, will be erected on the site of the old North Mills, occupied by the Lackawanna Iron & Steel Co. It will be one of the largest in the country, and employ from 900 to 1,000 men when ready. Plans for the new shops are already drawn. The tract available for the purpose covers about ten acres of land. Additional tracks will be built for the purpose.

BUELL, VA.—A manufacturing plant will be erected either at Buell or Money Point by the U. S. Wood Preserving Co. Estimated cost, $500,000. W. H. Childs is President; A. B. Clements, Vice-Pres. and Treas.; G. O. Strother, Secy., and F. A. Kummer is Chief Engr. The New York office of the company is at 29 Broadway.

HENDERSONVILLE, N. C.—S. B. Tanner, Pres. of the Henrietta Mills at Henrietta, is formulating plans for the establishment of a large cotton factory in this city. Mr. Tanner bought water-power property near here some time ago, and it is understood, he will develop it to furnish driving power for the new mill.

WILMINGTON, N. C.—The Armour Packing Co. contemplates erecting a packing plant in this city at a cost of about $20,000.

WILMINGTON, N. C.—George W. Kidder and F. Hopkinson Smith have purchased the plant of the Hydraulic White Brick Co., and will considerably enlarge and improve plant preparatory to operating.

CHARLOTTE, N. C.—The Wadesboro Cotton Mill will shortly erect an addition to its present plant, and materially increase its equipment. The machinery now consists of 7,700 spindles. Between 6,000 and 7,000 spindles will be added. The work will commence at an early date. C. M. Burns is Pres., and J. W. Haithcock is Secy. and Treas.

COLUMBIA, S. C.—The Ora Mfg. Co. has been incorporated at Cowpens by S. B. Wilkins, W. L. Jenkins, W. E. Patton and W. Y. Wilkins, with $30,000 capitalization. A plant is to be built for spinning yarns and weaving cloth.

The Cotton Manufacturers' Association intends to consider plans for establishing a cotton pickery to handle cotton from various gins, mills and factories. A large central plant probably will be established. George Luntz, Secy. of the Royal Bag & Yarn Co., Charleston, is interested.

SUMTER, S. C.—The Linson Lumber Co., with $30,000 capital stock, will operate saw and planing mill with a daily capacity of

30,000 ft. A building, 34 × 140 ft., double-decked, will be erected. George Bounds is Arch. and Engr.-in-Charge.

DALLAS, GA.—It is reported that the Paulding County Cotton Mfg. Co. contemplates doubling its equipment, which is now 5,040 spindles.

PINEVILLE, MISS.—It is reported that W. H. Alexander has purchased 2,000 acres of hardwood timber land and will install a stave and heading factory at once.

NASHVILLE, TENN.—The Davis Piano Player Co., of Pulaski, Tenn., has been incorporated with a capital of $75,000, and the following citizens of Pulaski as incorporators: John W. Davis, J. H. Ragsdale, M. Arrowsmith, W. G. Sparks and R. H. McLaurine. The company will manufacture musical goods, but make a specialty of the recently-patented Davis piano player. The company's factory and main office will be located at Nashville.

LOUISVILLE, KY.—A 3-story building on 14th and Broadway Sts., for the manufacture of bread, exclusively, will be erected by the Whiteside Bakery Co. Estimated cost, $100,000.

The Falls City Brewing Co. will erect a 2-story addition to be used for a cold storage department, at a cost of $28,000.

TOLEDO, OHIO.—A new plant will be erected by the Toledo Nut Lock Co., which was recently incorporated. Capital stock is $60,000. Edward M. Gale and others are incorporators.

COLUMBUS, OHIO.—The Vehicle Apron & Hood Co. will erect a 5-story factory, 41 × 187½ ft., on Mount Vernon Ave. Estimated cost, $42,000. E. H. Rickett, 44 Columbia Bldg., is Arch.

CANTON, OHIO.—Plans have been completed by W. S. Epperson for a galvanizing building, 79 × 350 ft., for the Berger Mfg. Co.

ESSEXVILLE, MICH.—The Bay City Boat Mfg. Co. has secured land in this town, where it will build and equip a large plant for the manufacture of business and pleasure craft.

ROMEO, MICH.—The Detroit Auto Vehicle Co., 65-71 Catherine St., Detroit, Mich., have arranged to build an automobile manufacturing plant here, at an estimated cost of $75,000.

DETROIT, MICH.—The Larned-Carter Co., manufacturers of overalls, have just purchased land immediately back of their present plant, Abbott and Eighth Sts. The firm is having plans made for a 4-story brick and stone building, 50x65 ft., work upon which will begin soon. A second new building, similar to the first, is also contemplated. The concern now employs 400 persons. When the addition is completed the force will be increased to 600.

DETROIT, MICH.—The Kelsey-Herbert Co., 277-285 Monroe Ave., are having plans prepared for a factory for manufacture of toilet preparations, to be 4-story, 100 × 50 ft., of brick, with Bedford limestone trimmings, composition roof, steel window frames, freight elevators, etc.

ROCKFORD, ILL.—The Burson Knitting Co. has planned to build a 4-story building extending from South Wyman to South Main St., just north of the Chicago & Northwestern Ry. tracks. The total available floor space will be about 45,000 sq. ft.

GRAND RAPIDS, WIS.—A. H. Stange, of Merrill, Wis., is considering plans for a $100,000 mill and wood manufacturing plant at Grand Rapids.

APPLETON, WIS.—It is reported that the Tuttle Press, at Appleton, will erect a $10,000 addition to accommodate the Universal Bottle Wrapper Co.

MADISON, WIS.—The Badger Shoe Co., South Madison, is considering plans submitted by several architects for a 6-story brick factory building, to be erected at once.

SHEBOYGAN FALLS, WIS.—It is reported that the Falls Machine Co. will erect extensive foundry and machine-shops, to cost $90,000, in a few months.

MILWAUKEE, WIS.—The Standard Knitting Co. has decided to enlarge its plant at 642 Third St. It has purchased the plant of the Crescent Knitting Co., at Appleton, which will be moved here.

MINNEAPOLIS, MINN.—Plans are being prepared by Linstrom & Williams, 455 Auditorium Bldg., for a garage building, to be 60 × 150 ft., for the Fawkes Auto Co. Cost, $15,000.

FORT SMITH, ARK.—William and Edward Sparling will establish a plant here for the manufacture of window guards, bank rails and other useful and ornamental devices in light iron and wire.

BATESVILLE, ARK.—Several capitalists of Jackson, Miss., propose to establish a cotton mill here. The proposition is that the mill have a capitalization of $125,000, of which the people behind the project are to subscribe $75,000 and the citizens of this town $50,000.

LITTLE ROCK, ARK.—A 2-story brick garage, 52 × 118 ft., at 311 West Third St., will be erected by the Little Rock Auto Co. Estimated cost, $30,000.

BATES, ARK.—The National Coal & Coke Co. will erect a plant, to cost about $40,000. The power plant will have a capacity of 400 HP.

HOUSTON, TEX.—The Ineeda Laundry & Dye Works have acquired property at Smith and Rusk Sts., 150 × 150 ft., where they will erect a laundry building, with steel frame and pressed brick front.

MARSHALL, TEX.—The Texas & Pacific Railway Co. will erect a brick shop, 200 × 600 ft., to be equipped with all modern appliances. E. Loughery is Gen. Foreman of Bridges and Buildings, Marshall, Tex.

CORPUS CHRISTI, TEX.—J. C. Fulton, proprietor of the Aransas Planing Mills, will move that plant from Rockport to this city at an early date. Eight lots in the south part of the city will be used for the large building, which is to be 50 × 150 ft., besides the boiler-rooms and other buildings. The plant will consist of over 40 machines of modern type. Patent window screens will be manufactured.

BRIDAL VEIL, ORE.—A planing mill, 160 × 390 ft., will be erected by the Bridal Veil Lumber Co., at a cost of $250,000.

SAN FRANCISCO, CAL.—The Osborn Engineering Co., Osborn Bldg., Cleveland, Ohio, is preparing plans and will receive bids in 30 to 60 days for a brick and concrete cement manufacturing plant to be built at San Francisco.

MONCTON, N. B.—The contract for the erection of the locomotive shops here has been let to E. A. WALLBERG, Montreal, at $500,000. This contractor was awarded the rest of the work on the new shops.

LONG POINT, QUE.—G. Fraser has purchased a site near Long Point, Que., for the sum of $65,000, and will erect an establishment for the manufacture of car wheels.

MONTREAL, QUE.—The Montreal Steel Works are increasing their capital from $1,500,000 to $2,000,000. The additional capital will be devoted to increasing the plant.

FRASERVILLE, QUE.—J. O. Landrey and X. F. Berube, Fraserville, Que., will establish a foundry and machine-shop here.

TORONTO, ONT.—The Gordon Mackay Co., Toronto, will erect a 5-story factory on the corner of Queen and Crawford Sts., at a cost of about $60,000.

The Toronto Carpet Co., Toronto, will erect a dye works building, at a cost of about $9,000.

TORONTO, ONT.—The National Car Co. has been incorporated here with a capital of $500,000 to manufacture cars and general railroad equipment. The incorporators are A. Stewart, T. H. Kilgore and J. L. Duncan, Toronto, Ont.

LONDON, ONT.—The American Clay Machinery Co., Willoughby, Ohio, will erect a sand-brick making plant at London.

HAMILTON, ONT.—The Philip Carey Mfg. Co., of Cincinnati, Ohio, has decided to erect a branch factory here.

DESERONTO, ONT.—The town has voted in favor of granting $10,000 to the Deseronto Furniture Co., to establish its plant here.

SANDWICH, ONT.—The U. S. Steel Corporation will found both a new steel plant and new city in Canada. They will be located on the Canadian side of the Detroit River below here, and the 5,000 men to be employed in the new works will form the new town's population. Work on the plant will begin early in the summer, and it will cost $25,000,000. The Steel Corporation will build homes for the men, and plans are being drawn for houses. The harbor facilities have been found excellent, and the corporation has decided to build ore docks and coal storage facilities unexcelled by any on the Great Lakes.

WINNIPEG, MAN.—The Transcontinental Railway Commission, Ottawa, is negotiating for the purchase of a large tract of land near Winnipeg, Man., where they will erect a work-shop, at a cost of about $200,000.

QUATSINO, B. C.—J. A. Moore, Seattle, Wash., has purchased a site at Quatsino Sound, on which he will erect an iron-ore smelter.

REVELSTOKE, B. C.—The Canadian Pacific Ry. Co. will erect additional shops at Revelstoke, at a cost of about $20,000. S. Phipp is Master Mechanic, Revelstoke.

VICTORIA, B. C.—It is reported that the British Columbia Marine Ry. Co. will erect a machine-shop here.

NEW WESTMINSTER, B. C.—The Schaake Machine Works, New Westminster, will erect new machine-shops, at a cost of about $50,000.

READERS' WANTS FOR THOSE IN THE MARKET

The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, mention Engineering News. Have you a copy of our Buyers' Guide? Engineering News Can Help Buyers.

STUMP PULLING MACHINERY.—Yale Station, New Haven, Conn.—W. C. Geer, Yale Station, New Haven, Conn., desires to communicate with manufacturers of stump pulling machinery.

TRACTION ENGINES.—White Plains, N. Y.—Hinman & Sproul, White Plains, N. Y., desire catalogues and other data relative to cost, etc., of traction engines.

DUST PREVENTOR.—Moorestown, N. J.—We are in receipt of a letter from Morris Linton, Member Township Com., Moorestown, N. J., stating that he is interested in securing a way to prevent the rising of dust caused by passing automobiles and trolley cars.

CONCRETE BLOCK PLANT.—Oshkosh, Wis.—Battis Bros., 43 Market St., Oshkosh, Wis., write us that they are interested in the installation of a concrete block plant, and desire information relative to the same.

CONTRACTORS EQUIPMENT.—Greenfield, Mass.—We are informed that John D. Kiely, Greenfield, Mass., is in the market for the following equipment: 1 concrete mixer, about 20 ft. capacity; 1 10 H.-P. gasoline engine; 1 diaphragm pump, and a bucket and hoist for hoisting concrete.

STEEL RAILS AND POWER HOUSE MACHINERY.—Dallas, Tex.—Fred A. Jones, Engr., Scollard Bldg., Dallas, Tex., desires to communicate with firms manufacturing steel rails and power-house machinery for interurban railways.

MAP RACKS.—Johnson City, Tenn.—Orlando K. Morgan, Johnson City, Tenn., writes us that he desires names of parties making a wall map rack or case wherein maps may be kept at some convenient distance from the floor, and pull upwards, thus allowing the top of the map to be easily examined.

STEAM, ELECTRIC AND RAILROAD SPECIALTY EQUIPMENT.—Norfolk, Va.—I. E. Blaumgardt, care Tidewater Railway Co., Norfolk, Va., desires catalogues and other data relative to steam, electric and railroad specialty equipment for files in the engineering department.

CABLEWAY, CLAM SHELL BUCKET, CONVEYORS, SCREENS, ENGINES AND BOILERS.—Columbus, Ga.—We are in receipt of a letter from Ernest L. Hill, c|o Springer Hotel, Columbus, Ga., stating that he has just purchased a valuable deposit of sand and gravel, and is in the market for a cableway, clam shell bucket, conveyors, screens, engines and boilers.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

STEAM ROLLER.—Holyoke, Mass.—See Streets and Roads.

DREDGING.—New York, N. Y.—No bids were received on Jan. 8, by Lieut.-Col. W. L. Marshall, U. S. Engrs., Army Bldg., for dredging in Ambrose Channel, N. Y. Harbor.

LOCK AND DAM.—Mobile, Ala.—Bids are asked until noon, Feb. 15, for building Lock and Dam No. 2, Tombigbee River, Ala. Major H. Jervey, Corps of Engrs. (Advertised, Engineering News.)

HYDRAULIC DREDGE.—Toronto, Ont.—Bids are asked until noon, Feb. 19, for construction of a hydraulic dredge complete. Mayor Emerson Coatsworth, Chn. Bd. of Control. (Advertised, Engineering News.)

DREDGING.—New York, N. Y.—Bids are asked until noon, Jan. 28, by J. A. Bensel, Comr. of Docks, for furnishing all the labor and materials required for dredging about 200,000 cu. yds. on the North River.

DREDGING.—New York, N. Y.—Bids are asked until noon, Feb. 13, by Col. D. W. Lockwood, Engrs., Army Bldg., for dredging in Newtown Creek and Harbor at Peekskill, N. Y. (Advertised, Engineering News.)

UNDERGRADE CROSSING.—Williamsport, Pa.—Bids are asked by J. J. Galbraith, City Clerk, until noon, Feb. 11, for construction of an undergrade crossing under the P. & E. R. R. tracks at Campbell St. James F. Fisher, City Engr. (Advertised, Engineering News.)

STEEL LOCK GATE.—Chattanooga, Tenn.—Bids are asked until 11 a. m., Feb. 12, by Major H. C. Newcomer, U. S. Engrs., for furnishing certain metal work and for building steel lock gate for Hales Bar Lock, Tennessee River. (Advertised, Engineering News.)

SALT WATER SWIMMING POOL.—Asbury Park, N. J.—Plans and estimates are requested for the construction of a salt water swimming pool, about 85 × 200 ft., on the ocean front, at Asbury Park. Address W. P. Sherman, Secy. Public Grounds Comn. (Advertised, Engineering News.)

DRAINAGE CANAL.—New Orleans, La.—Z. W. Thomas, of Iowa, has sublet contract to F. E. SPRAGUE & CO., of New Orleans, La., for construction of the New Iberia South Drainage District, which calls for the construction of a canal from 100 to 150 ft. wide which shall have 6 ft. of water at low tide.

BULKHEAD.—New York, N. Y.—Bids are asked until 11 a. m., Jan. 23, by Bird S. Coler, Pres. Boro. of Brooklyn, for furnishing all the labor and materials required for building a temporary bulkhead on the Eighth Ward Market property, between 36th and 38th Sts., Second Ave. and New York Bay, Boro. of Brooklyn.

BARRACKS.—Boise, Idaho.—GEORGE WALKER, 236 Cherry St., Colorado Springs, has been awarded two government contracts for work on the barracks to be built at Boise. He will build one double set of captains' quarters for $19,600, and one double set of lieutenants' quarters for $15,900. Mr. Walker entered into competition with the biggest contractors of the country in bidding on the work. He will take a crew of Colorado Springs men to Boise.

MAIL CHUTES.—Washington, D. C.—Bids were received Jan. 15, at the office of Elliott Wood, Supt. of the U. S. Capitol Building and Grounds, Washington, for installing mailing devices in the new House of Representatives Office Building. Automatic Mail Delivery Co., New York, $2,473, five letter chutes; Otis Elevator Co., New York, $9,790, five spiral letter and package conveyors; $2,275 deduction for omission of letter conveyor; Cutler Mfg. Co., Rochester, N. Y., $4,300, for five letter chutes; George E. Kilberry, New York, $7,850, for mail and package conveyors.

WIRELESS TELEGRAPH.—Dawson City, Yukon.—The De Forest Wireless Telegraph Co. has made a proposition to the Government to install wireless telegraph stations to bridge over the dangerous section of the route on the government telegraph line between here and Ashcroft, which by reason of windstorms and avalanches is frequently interrupted. The company asks a subsidy of $50,000 for the installation of the plant and a further subsidy of $50,000 each year it is in operation. The De Forest people undertake to cut existing tolls by half, which are now $4 for ten words. The annual government deficit in this line is $[illegible],000.

DOCKS AND TERMINALS.—Galveston, Tex.—It is reported that B. F. Yoakum has arranged the financial details for construction of immense docks and terminals for the Rock Island-'Frisco System here. The plan calls for the expenditure of nearly $5,000,000. There will be three piers 2,000 ft. long and equipped with electrical freight conveyors. They will afford berths for about thirty vessels. Ten miles of track, the largest freight station and warehouses in the South, a million bushel grain elevator and an electric power house are included in the plans. The terminals will be used by the Rock Island, the St. Louis, Brownsville & Mexico, the Trinity & Brazos Valley and the Colorado & Southern railroads.

TUNNEL.—Cripple Creek, Colo.—The Directors of the Cripple Creek Tunnel & Drainage Co. have decided to construct an intermediate tunnel. It will be 27,190 ft. long, will cost $1,000,000 and will require over five years to build. The west side mines will be relieved when 15,100 ft. is bored, while the east side properties will depend on the tunnel after it leaves the point of contact of granite and eruptive rock, and comes eastward toward the Vindicator mine. It will give a depth of 740 ft. below the present drainage tunnel. The mine owners have raised $750,000 and expect $100,000 from other mines and $150,000 from the mills and railroads. The entire $1,000,000 will be available and all unexpended money will be returned pro rata. Work on the tunnel will commence immediately after the railroads and mills sign their subscriptions.

DOCKS, ETC.—Oakland, Cal.—The contract has been let to the HAMMOND LUMBER CO. for 6,000 piles, the first section of what is practically an almost unlimited order for the construction of the new harbor docks and terminal basin of the Key Route system, which, when completed, from the estimates of the consulting engineer, Howard Holmes, will involve an expenditure of $10,350,000. According to the plans, the basin in front of the bulkhead, which they have constructed to a depth of 30 ft. at low tide, will be dredged, thus enabling vessels of the largest draft to enter the basin and moor alongside the berths. These docks will be 100 ft. wide and 1,000 ft. long, and will give room for 228 ships. Each dock will be reached by a spur track, and thus it will be possible to load the consignment of products of the Orient directly from the ship to the freight cars. One of the most important provisions in the plan is for the ferriage of freight cars from the basin to San Francisco, thus enabling Eastern shippers on independent lines to come to tidewater and have their cars transferred to the San Francisco waterfront.

The work of placing the 6,000 piles which is the first consignment ordered from the Hammond Lumber Co., will be commenced with the arrival of the first shipment, and at the same time the present bulkhead, which has been erected to reclaim 500 acres of water frontage, will be completed. Already the core of the bulkhead is up, and the work of sheet-piling and rip-rapping will be pushed forward as rapidly as possible. It will require at least 5,000,000 cu. yds. of soil to fill in the reclaimed land, and this will be secured by dredging out the basin and pumping the silt and soil over the bulkhead, so the important work of filling the new land and dredging the ship basin will proceed coincidentally. The new docks will be modern in every essential, and will be made of reinforced concrete cylinder, with steel and wooden superstructures, similar to the new Pacific Mail dock, on the San Francisco waterfront.

One of the features of the new harbor will be the 500 acres of reclaimed land, which will be reserved for sites for factories and industrial institutions, and railroad terminals. The entire harbor project has been studied out by F. M. Smith and F. C. Havens, of the Realty Syndicate, and they have made it an absolute condition that all railroads shall have equal rights and privileges to use the terminals of the new harbor basin. The necessary arrangements the Key Route Co. has reached the stage where contracts are being let to push the have been made to finance the project, and work to completion.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

PANAMA CANAL.—For details of bids received on Jan. 12 for completion of the Panama Canal see editorial pages of this issue.

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., Jan. 29, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for a quantity of engineering supplies as follows: 24,000 ft. standard cast-iron soil pipe with fittings; 84 lengths steel shafting; 98 drop hangers and 90 post hangers; 1,200 bbls. mosquito oil; 2,000 ft. twist chain; 3,500,000 ft. B. M. lumber, pine and oak for repairing furniture; 150,000 standard fire brick; fire clay, mosquito bars, wire rope, etc.

DREDGES.—Panama.—Bids were opened Jan. 12 at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for the construction and delivery of two suction dredges. Bids were asked on the following deliveries: (a) one dredge, delivered at La Boca; (b) same, delivered at Cristobal; (c) same, delivered at any Atlantic or Gulf port in the United States; (d) same, delivered at any Pacific port; (e), —— suction dredges, knocked down and securely packed for ocean shipment, delivered at any Atlantic, Gulf or Pacific port. Bids were as follows:

Bay and River Dredging Co., 604 Mission St., San Francisco, Cal., (a) $189,000; 345 days; (d) $1[illegible],000; 315 days; Fore River Shipbuilding Co., Quincy, Mass., (c) $104,467; 270 days; (e) two dredges, $202,900; 285 days; Harlan & Hollingsworth, Wilmington, Del., filed a statement that they were unable to bid. International Contract Co., 737 New York Block, Seattle, Wash., (a) $149,000; 250 days; bidders' specifications throughout (a1) $189,000; 250 days; machinery and Government, hull on bidders' specifications; (d) $163,000; 200 days; same as (a1), (d1) $123,000; 200 days; same as (a); Maryland Steel Co., Sparrow's Point, Md., (b) $12[illegible],800; 305 days; (c) $121,000; 305 days; (e) one dredge, $103,950; two dredges, $2[illegible],500; 285 and 320 days; both conditional; Newport News Shipbuilding & Dry Dock Co., Newport News, Va., filed a protest, stating that the Commission had not as yet rejected its bids under Circular 338, opened Dec. 11, upon which their bids of $107,000 for one dredge, and $204,000 for two dredges (delivered at Newport News, Va.), were far lower than that of any other bidder, and requesting that the contract be awarded to them upon those prices. They supplemented their former proposition by stating that they would deliver the dredges knocked down in accordance with delivery (e), upon additional payment of $7,500 each.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the worr was advertised in Engineering News.]

*SPILLWAY, ROADS.—Troy, N. Y.—Bids in detail were received on Dec. 11 by the Board of Contract and Supply for the reconstruction of spillway and for building roads at the Tomhannock Reservoir. E. L. Grimes is Ch. Engr., Bureau of Water Supply. (A) Besch & Beebe; (B) Russell Contracting Co., 156 Fifth Ave., New York; (C) M. Fitzgerald; (D) McDONOUGH CONSTRUCTION CO., Troy (awarded contract):

BIDS RECEIVED AT TROY, N. Y., FOR RECONSTRUCTION OF SPILLWAY AND FOR BUILDING ROADS.

	(A)	(B)	(C)	(D)
2,700 cu. yds. earth excavation, class A...	$1.08	$0.86	$0.60	$1.10
22,400 cu. yds. earth excavation, class B...	.56	.39	.30	.35
2 acres seeding	35.00	30.00	25.00	30.00
85 sq. yds. paved gutters..............	.72	.54	1.00	1.00
6,000 cu. yds. gravel surfacing for roads..	1.08	1.17	1.50	.80
1 100 cu. yds. gravel for drainage beds....	1.08	1.02	1.50	1.00
250 lin. ft. porous tile pipe, 4-in..........	.12	.15	.20	.05
400 lin ft. cast-iron pipe, 4-in...........	.55	.50	1.00	.35
120 lin. ft. wrought-iron pipe, 3-in......	.45	.40	.20	.30
4,000 lin. ft. guard rail fence............	.25	.34	.35	.22
900 cu. yds. concrete excavation..........	2.00	1.00	2.50	1.00
Lump sum trimming existing concrete walls	50.00	35.00	2,500.00	100.00
110 cu. yds. old concrete placed as paving	3.00	1.50	2.00	1.10
230 bonding rods to be set..............	1.15	.49	1.50	.50
2,600 cu. yds. concrete, class A...........	7.50	9.34	9.50	7.50
1,100 cu. yds. concrete, class B...........	6.00	7.07	7.00	6.00
2,000 sq. ft. mortar coating on present walls	.08	.12	.20	.10
21,700 lbs. reinforcing and bonding rods....	.06	.04	.0375	.04
1,500 sq. yds. brick pavement using new bricks	2.00	2.13	3.25	2.50
1,700 sq. yds. brick pavement relaying old bricks	1.00	.68	2.25	.80
195 cu. yds. stone masonry, using new stone	35.00	36.00	8.00	20.00
17 cu. yds. stone masonry, relaying stone	6.00	10.00	4.00	7.50
23 M. B. M. sheet piling...............	50.00	80.00	60.00	50.00
One highway bridge...............	2,500.00	2,200.00	2,397.40	2,485.00
Total amount of bid.............	$69,846.70	$71,914.10	$74,033.15	$59,100.00

LIFT BRIDGE.—Syracuse, N. Y.—One bid was received by N. V. V. Franchot, Supt. Public Works, Albany, on Jan. 9, for the work of constructing a lift bridge over the Oswego Canal at North Salina St., Syracuse, that of John M. Shultz, Syracuse, N. Y., at $67,510. Itemized prices of the bid were as follows:

BID RECEIVED JAN. 9 FOR LIFT BRIDGE AT SYRACUSE, N. Y.

9,000 cu. yds. all excavation....................	per cu. yd.	$0.60
3,000 cu. yds. forming embankment....................	" "	.30
1,600 cu. yds. second-class concrete....................	" "	7.50
250 cu. yds. third-class concrete counterweight....................	" "	7.50
10 cu. yds. first-class masonry coping....................	" "	25.00
900 sq. yds. approach pavements....................	per sq. yd.	2.50
4,500 sq. ft. Portland cement sidewalks....................	per sq. ft.	.20
340 lin. ft. new curbstones....................	per lin. ft.	1.50
100 lin. ft. curbstones reset....................	" "	.75
30,000 lbs. metal reinforcement....................	per lb.	,04
14,000 lbs. cast-iron pipe....................	"	.04
6 M. B. M. sheeting and bracing....................	per M. B. M.	125.00
420,000 lbs. structural steel erected in place....................	per lb.	.56
57,000 lbs. machinery....................	"	.20
360 sq. yds. wood block pavement....................	per sq. yd.	2.50
19 M. B. M. creosoted lumber....................	per M. B. M.	100.00
4 M. B. M. yellow pine or Douglas fir sawed lumber......	" "	60.00
266 lin. ft. iron railings....................	per lin. ft.	5.00
Operator's cabin, complete....................	per lump sum	200.00
All valves	" "	700.00
Mechanism for sidewalk plate....................	" "	300.00
Reconstruction of foot bridge....................	" "	600.00
Safety gates	" "	500.00
Total....................		
Deduct price to be paid by the contractor to the State of New York for the existing superstructure....................		750.00
Total....................		$67,510.00

TUNNEL ENTRANCE.—Boston, Mass.—Seven bids were received on Dec. 27 by B. Leighton Beal, Secy. Boston Transit Comn., 15 Beacon St., for constructing an entrance and exit for the Washington St. tunnel, at Franklin St. Contract was awarded to PATRICK McGOVERN, 6 Beacon St., Boston, at $29,087; time of completion, April 1. In detail his bid was as follows: 3,200 cu. yds. earth excavation, $3.85; removing and disposing of 100 cu. yds. of masonry consisting of cellar floors, walls, foundations, etc., $5; furnishing, hauling and putting in place for all purposes except that included in Item (cc) 750 cu. yds. concrete made with Portland cement mortar, $10; furnishing, hauling and putting in place around steel beams, &c., 400 cu. yds. concrete made with Portland cement mortar, $10; furnishing and laying 5 cu. yds. of brick masonry made with Portland cement mortar, $20; setting in place and securing 26 tons of steel and iron weighing less than 6 lbs. per lin. ft., $12; setting in place and securing 40 tons of steel and iron weighing 6 lbs. or more per lin. ft., $12; furnishing, preparing and applying to joints or other parts of structure 1,200 sq. yds. of coating or skin of Portland cement mortar, 40 cts; furnishing, preparing and applying to structures 10 sq. yds. of waterproof coating of pitch or asphalt ½-in. thick, 50 cts; preparing and applying to structures 8,000 sq. yds. of tarred felt, pitch, &c., 20 cts; furnishing all material and constructing 120 ft. of granolithic sidewalk with lights, $2; cutting out and removing portions of the walls, floors, etc., except that included in Item b, of present building, and furnishing and building in place all framing, blocking and other new material required to join the new work to the old, &c., $500; underpinning, supporting and protecting the buildings and structures on the line of the work, &c., $1,800.

MEXICO.

BRICK FACTORY.—Saltillo.—The new brick-making plant which is being erected here by Henry Scholfield and associates will be placed in operation in February.

ELECTRIC LIGHT PLANT.—Ocotlan, Oaxaca.—Leading citizens here have signed a petition setting forth the need of an electric light plant, and urging that one be installed here.

IRRIGATION SYSTEM.—Monterey.—Miguel Morales will establish a large system of irrigation on the Cruz ranch, in the state of Nuevo Leon. A dam will be built across Cieneguita Creek to afford the water supply.

SMELTER. — Chilpancingo, Guerrero. — The International Metal Co. is arranging to erect a 200-ton smelter to handle the low grade ores at its mine in this state. The company now has a 50-ton smelter in operation, which is devoted to treating the high grade ores. The value of the output of the mine now exceeds $100 per month.

RAILROAD. — Irapuato, Guanajuato. — Track-laying on the first division of the Morelia & Tacambaro Railroad from Irapuato to Puruandiro, a distance of 50 miles, will be commenced at once. The contractors, HAMPSON & SMITH, have the grade of this first division finished.

MILITARY BARRACKS. — Oaxaca and Queretaro.—The Federal Government has appropriated $66,000 for reconstruction of the military barracks at Oaxaca. The barracks at Queretaro will also be reconstructed.

RAILWAY.—Beristain-Tuxpan, Veracruz. —The location of the National Ry. extension from Beristain to Tuxpan, state of Veracruz, is being completed. It is expected construction will commence the latter part of January. A number of tunnels and several large bridges will be necessary. The extension will be about 160 miles in length.

AERIAL TRAMWAY.—Sabinas Hidalgo Dist., Nuevo Leon.—The Cruz del Aire Mining Co. contemplates the construction of an aerial tramway, to transport its ores. The mine is situated in the Sabinas Hidalgo Dist., state of Nuevo Leon.

PRISON AND CITY HALL.—Vera Cruz.—The City Council of Vera Cruz is having plans prepared for the construction of a new city prison and for rebuilding the city hall. The prison will cost about $250,000 and the city hall about $300,000.

BULL-RING.—Guadalajara, Jal.—Narcisco Parga, of the city of Guadalajara, is organizing a company to construct a bull-ring in the American colony of the city. It is intended to expend $60,000 in the construction of the ring, which is planned to have a seating capacity of 10,000.

WIRE WINDLASSES. — Pachuca. — The Compania Minera de Real del Monte, of this city, will install ten new wire windlasses in its mines. It has awarded the contract for 8,000 meters of wire cable to the firm of LUIS MONROY DURAN Y CIA., of Mexico City. The price was $30,000.

PLACER DREDGING PLANT.—La Brisca, Sonora.—The Greene Consolidated Gold Co. will install two large dredges upon its placers near here. The plans and specifications for the proposed dredging plant have been made by the Fulton Iron Works, of San Francisco, Cal. The plant will cost about $100,000.

STAMP MILL.—Guanajuato.—The Pinguico Mines Company will erect a 40-stamp mill at its mines in this district. This is to be in addition to the 100-stamp mill that has just been completed. The power is derived from the Guanajuato Power & Electric Company, which is supplying some 5,000 HP. to the mines of this district.

RAILWAY EXTENSION. — Mexico. — The Mexican Ry. Co. has decided to extend its lines, it is reported, to connect the east of Mexico with the center, and it is understood that with this object in view it intends to purchase the Apizaco to Tlaxco line, which it will extend to the Sierra de Puebla, and to the cantons of Papantla and Tuxpan, in the state of Veracruz.

INLAND CANAL.—Tampico.—C. E. SHILLABER, of Chicago, Ill., who has the contract for constructing the inland canal to connect Tampico with Tuxpan, says that the new waterway will be sufficiently completed this month to permit the passage of light-draft vessels all the way between the two ports. A number of dredges are at work on the canal.

RAILROAD.—Mexico City.—A. J. Peyton, who is at the head of the Morella & Tacambaro Railroad, is in New York on business connected with the sale of bonds of the road. Mr. Peyton has disposed of a good part of the issue of $5,000,000 of bonds issued for the construction of the road in San Francisco. He says that the line will be rushed to completion, now that it has been financed.

IRON ORE FIELDS.—Monterey.—Vincente Ferrara, of Monterey, Pres. of the Monterey Iron & Steel Co., and his son, Jesus Ferrara, have obtained title to a large body of iron ore land, situated near Santa Catarina, state of Nuevo Leon. It is stated that they will develop the property on an extensive scale, and that the ore will be supplied the steel plant in Monterey. The iron is said to be of high grade.

SUGAR MILLS AND ELECTRIC POWER PLANT.—Paraje Nuevo, V. C.—JOHN W. SHEPARD & CO., contractors of the city of Mexico, have closed a contract with the Mexican National Sugar and Refining Co., of New York, for the construction of sugar mills, dams and electric power plant at the sugar company's property, Nuevo Paraje, state of Veracruz. The contract amounts to about $150,000. Construction will commence at once.

TELEPHONE SYSTEM. — Pachuca. — STEPHEN WATERS and JONAS A. RENSTROM have entered into a contract with the Government of the state of Hidalgo to construct a complete system of telephone to unite Pachuca with a number of the principal towns of the state. Local systems will also be installed in the cities of Pachuca and Tulancingo. The contractors obligate themselves to finish these local systems within six months and to complete the long distance lines within two years.

RAILROAD.—Guaymas, Sonora.—The El Paso & Southwestern Railroad, which is owned by Phelps-Dodge & Co., of New York, is to be extended across northwestern Mexico from Nacozari to Guaymas. This extension by the proposed route will be about 300 miles long. It will follow the valley of the Sonora River for some distance. The survey for the new line was completed some time ago and a force of 400 men are now at work clearing the right-of-way preparatory to the commencement of grading operations.

GAS PLANTS.—Mexico City.—The Mexican Gas Company, which has been organized to establish gas plants in Mexico City and a number of the other larger towns of Mexico, will begin the work of constructing the works here very soon. The company will operate under a concession which was recently granted for the purpose by the Federal Government to Edward Doheny, of Los Angeles, Cal., Charles A. Canfield and Norman Bridge. Under the terms of the concession the company is required to invest not less than $500,000 in the enterprise within the next four years.

MILL AND CYANIDE PLANT.—Guazapares, Chihuahua.—The Rio Plata Mining Co. is preparing to erect a mill and cyanide plant at its mines near here. It will have a capacity of 50 tons of ore per day. The company recently erected a saw mill upon its timber tract adjoining its mine and will build a flume 5,000 ft. long from a point on the mountain to the mill, and cyanide plant for conveying water for power purposes. At one point this flume will pass through a tunnel 190 ft. long and will deliver the water to a pipe line 450 ft. long and having an effective head of 170 ft., discharging into a 6-ft. Pelton wheel and generating 200-HP. D. W. Shank is Gen. Mgr.

PACKING HOUSE.—Monterey.—L. H. Freise has obtained a concession from the State Government of Nuevo Leon for the establishment of a meat packing plant at some place in the state, probably Monterey. He has deposited the sum of $2,000 with the State Treasurer as a guarantee that the terms of the concession will be complied with. He agrees to expend not less than $100,000 in erecting the proposed plant, but it is stated that the plans call for the expenditure of considerably more than that sum. It is understood that Mr. Freise represents a syndicate of American capitalists in making the preliminary arrangements for the project. The work of constructing the plant will be commenced within six months.

TELEPHONE SYSTEM.—Mexico City.—Manuel S. de Corbera and J. Sitzenstatter, Engrs., both of Mexico City, have been granted a concession by the State Government of Vera Cruz for construction of a complete system of long distance telephone lines in that state. The concession also includes the construction of local telephone systems in all the cities and towns of the state. Corbera and Sitzenstatter are organizing a strong company of Mexican and foreign capitalists to undertake the important enterprise. It is announced by them that the construction of an underground telephone system in the city of Vera Cruz will be commenced immediately. Underground systems will also be constructed in the cities of Jalapa, Orizaba and Cordova. All of these cities will be connected with long distance lines. The automatic system will be used.

HYDRO-ELECTRIC PLANT. — Pachuca, Hidalgo.—The Compania Electrica e Irrigadora, of Pachuca, which for about six years has been supplying the city of Pachuca with electrical energy for power and lighting from the company's Juando generating station, is now constructing a new plant on the same stream. The Mexican City firm of G. & O. BRANIFF, the representatives of the WESTINGHOUSE ELECTRIC & MFG. CO., of Pittsburg, has been awarded the contract for the machinery required. The plant will be equipped with four 1,540-KW. generators, generating current at 2,200 volts, to be driven by Piccard, Pictet & Co. wheels. There will be two 125-KW. exciter generators for exciting the fields of the alternators. The voltage of the generators will be raised to approximately 25,000 volts, by means of nine 540-KW. transformers, and the energy transmitted at three-phase to the present plant, where it will be connected in multiple with the circuits to the city.

SMELTER.—Venegas, San Luis Potosi.—The Toltec Metallurgical Company, which has its general offices in Denver, Colo., has decided to erect a large smelter at Venegas, San Luis Potosi, to cost several hundred thousand dollars. The smelter will have an initial capacity of 600 tons per day, and will consist of both copper and lead-silver furnaces. The furnaces will be of exceptionally large capacity, the copper matting furnace measuring 42 by 200 inches, and weighing 126,000 pounds, the lead furnace measuring 46 x 162 ins., and weighing 106,000 pounds. Connersville blowers of 175 and 150-HP., respectively, will be required to furnish blast for the furnaces. Extra power will be provided at the outset, and the plant so designed that additional furnaces can be added from time to time. A mechanical charging device will largely do away with hand labor in charging the furnaces. Power will be furnished from gas engines and electricity, the gas being generated from soft coal, and a 700-HP. plant will be installed. The necessary sampling works, laboratory buildings and offices, as well as houses for the employees, will be built. Franz Cazin, mechanical engineer, of Denver, is preparing the final plans, and work will soon commence on the construction. James A. Kilton is Pres. and Gen. Mgr. of the company, John S. Gibbons is Secy., and Edwd. F. Wallace, Treas.

OIL GAS PLANTS.—Mexico.—A very important concession is published in the "Diario Official." Edward Daheny, Chas. A. Canfield and Norman Bridge are granted a concession to erect and operate, in any city or town in the republic of Mexico, gas plants for the manufacture and distribution of crude oil gas. The concession allows the free importation, for a period of ten years, all machinery, pipes, materials and appliances required for the complete installation of gas works and distributing systems. The concessionaires obligate themselves to commence the actual construction work within six months: to invest $500,000 and to furnish gas to the districts of Santa Maria, San Rafael, Juarez and Roma, in the federal district, within four years. This new industry to supply a commercial gas made from crude oil, and to be supplied at a moderate cost, is made possible by the late development in the oil district adjacent to Tampico. In addition to the active development of this oil field, preliminary surveys for an oil pipe line in which to deliver the oil to the City of Mexico are being made. This mode of delivery of oil to the city will so cheapen the cost that the resulting gas can be sold at such a price as to make a ready demand for it.

The company organized to operate under the concession will be known as the Mexican National Gas Co. The construction of a plant to supply the City of Mexico and suburban towns of Tacubaya, Mixcoac, San Angel, Cherubusco, Tacuba, Atzcapotzalco, Coyoacan and Tlalpam has been decided. From the date of publication of the above concession the capital invested, as well as all shares and bonds issued shall be free of all direct federal tax, with the exception of the stamp tax, for ten years. James W. Warren, of Los Angeles, Cal., will be the Gen. Mgr. of the company. He expects to have the plant running to supply the City of Mexico and suburbs within one year. It is the intention of the company to carry a complete line of appliances which will be used in houses in connection with gas, such as heaters for baths, rooms, cook stoves, etc.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ———, ———. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

FREE ADMISSION OF MACHINERY.—Costa Rica.—The Costa Rican Government has recently decreed the free admission for a period of five years of all kinds of machinery employed for the preparation of coffee, cacao, sugar, starch, rice and for the manufacture of brooms, vermicelli and beer.

CANAL WORKS.—Spain.—The Ministry of Fomento has under consideration a plan providing for the expenditure of 12,000,000 pesetas (about $2,400,000) on the completion of the construction of the Aragón and Cataluña Canal. It is proposed to provide for the expenditure of 4,000,000 pesetas in the estimates of 1907, 1908 and 1909.

HOSPITAL, JAIL.—Arequipa, Peru.—Julius A. Arce, C. E., Arequipa, Peru, is Engr.-in-Charge of the Southern Peru state jail, for which steel and masonry construction is to cost $200,000, American gold; also for the "Goyeneche" hospital. Masonry structure to cost $150,000, American gold. Foundations for both are being laid. All steel and iron work will be imported. In connection with both works a complete quarrying plant will be established, including stone saws, planers and polishers. All this machinery is to be imported from the United States immediately.

STEEL RAILS.—Italy.—J. A. Smith, U. S. Consul at Leghorn, reports that the rails for the new line of railway between that city and Vada, now under construction, will be required in the spring of 1907. American manufacturers of steel rails desiring to compete for the contract should communicate at once with COMMENDATORE PARISI, Impresa della Ferrovia Livorno-Vada, Castiglioncello, presso Livorno, Italia. Mr. Parisi is the contractor for the road, and it is estimated that about 1,500 tons of rails will be required for the completion of same.

RECLAMATION WORK.—British India.—Bids are asked by the Secretary, Bombay Port Trust, Ballard Road, Bombay, until 5:30 p. m., April 2, or by the Trustees' Consulting Engineers, Sir J. Wolfe Barry and A. J. Barry, 7, The Sanctuary, Westminster, S. W., London, until noon, April 2, for carrying out a reclamation scheme between Mazagon and Sewri. The contract will include the building of a rubble masonry quay wall about 12,600 ft. long on piled foundations, and the reclamation of about 518 acres of the foreshore, such reclamation to be effected by silt or mud pumped or dredged from the bed of the harbor, and covered with a layer of good earth.

ELECTRIC AND STEAM RAILWAYS.—C. B. Harris, U. S. Consul, at Nagasaki, reports that the early construction of three electric tramways in the northern portion of the Japanese Island of Kyushu is under contemplation. The first, to be built from Moji to Kokura, a distance of eight miles, estimated cost $350,000; the second, from Moji to Yawata, twelve miles in length, at a cost of $500,000, and the third, one of 23 miles, between the important towns of Fukuoka and Kokura, at an estimated cost of $1,250,000 gold. The consul also reports that a light steam railway is projected to run from Isahaya, a station on the Kyushu Railroad 20 miles from Nagasaki, to Shimabara, a port on Shimabara Bay, opposite the port of Misumi, a distance of 26 miles, costing in its construction $325,000 gold. Mr. Harris suggests that American electric and railway supply houses send their catalogues, in the English language, to the mayor and chamber of commerce of the cities of Nagasaki, Moji, Fukuoka, Kokura, and Kumamoto, with the request that the catalogues be handed to the projectors of the lines under contemplation.

PORT WORKS.—Italy.—The Minister of Public Works has recently laid before the Italian Chamber a bill to provide for the expenditure of 100,000,000 lire* (about $20,000,000) on port improvements and coast defence works. In the preamble to the bill it is stated that during the years 1862-1905, nearly 3,000,000 lire have been spent on Italian railways, and 500,000,000 lire on other public works; but only 277,000,000 lire on port works, although shipping has increased by two-thirds during that period. Hence the necessity arises for a systematic scheme of port extensions and improvements. The above-mentioned commission formulated a scheme which would entail a vote of 200,000,000 lire to provide for such works, apart from the cost of construction of railway lines needed to complete the scheme. The Government does not propose to ask for so large a sum, but is of opinion that half that amount is needed for improvements of an urgent nature. This sum will be apportioned as follows: Ancona, 3,500,000 lire; Bari, 2,600,000 lire; Brindisi, 1,000,000 lire; Cagliari, 2,000,000 lire; Carloforte, 430,000 lire; Catania, 2,000,000 lire; Civitavecchia, 6,000,000 lire; Golfo Aranci, 320,000 lire; Leghorn, 10,000,000 lire; Maddalena, 150,000 lire; Naples, 11,000,000 lire; Palermo, 7,600,000 lire; Porto Corsini, 1,500,000 lire; Porto Empedocle, 1,000,000 lire; Porto Torres, 2,650,000 lire; Reggio Calabria, 1,200,000 lire; S. Benedetto del Tronto, 500,000 lire; S. Stefano, 450,000 lire; Savona, 7,000,000 lire; Spezia, 4,660,000 lire; Torre Annunziata, 2,000,000 lire; Trapani, 2,400,000 lire; Venice and Chioggia, 15,500,000 lire; and Villa S. Giovanni, 400,000 lire. The remaining 13,140,000 lire are as yet unassigned. It is proposed to spread the expenditure over twelve years; providing for 9,000,000 lire in the budgets of 1907 and 1908; 8,000,000 lire in those of 1909-17, and 9,000,000 lire in those of 1918-19.

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*Lire = 19.3 cts.

PUBLIC WORK—Roumania.—The Minister of Public Works, Bucharest, Roumania, will shortly invite bids for (1) two cargo boats of 7,000 tons at a cost of 1,000,000 lei (about $200,000) each, and several tug boats, also at the cost of 1,000,000 lei; (2) the enlargement of the port of Constantza, at the cost of 7,000,000 lei (about $1,400,000); (3) the construction of bridges and the improvement of roads, at the cost of 2,000,000 lei (about $400,000.) The Director-General of Roumanian State Railways in report to the Minister of Public Works, urges the necessity of a grant in the new budget for the improvement of the railways, and estimates that at least 54,249,000 lei (about $10,800,000) are needed, to be apportioned as follows: 5,980,000 lei for the purchase of 90 passenger carriages, 360,000 lei for 40 luggage vans, 640,000 lei for 100 covered goods vans, 4,590,000 lei for 60 locomotives, 11,700,000 lei for 2,000 open goods vans and 2,000 platform trucks, 3,040,000 lei for improvements in the workshops so as to enable them to construct carriages, 3,278,000 lei for the enlargement and construction of warehouses, 1,700,000 lei for relaying rails, 5,290,000 lei for repairs to bridges, 3,200,000 lei for doubling the line between Ploesti and Campina, 2,350,000 lei for enlarging various stations, and 4,010,000 lei for constructing new station. The "Curierul Financiar," of Bucharest, states that the Minister of Public Works is about to ask for an extraordinary credit of 30,000,000 lei (about $6,000,000), the major portion of which is destined for railway improvements.

CANAL.—Servia.—Bids will be opened on Feb. 1 at the Municipal Offices, Porajevalz, for the construction of a canal to connect the River Morava with the River Danube, passing through Porajevalz.

RAILROAD.—Dominican Republic.—Buompensiere & Valdez, of Barahona, Dominican Republic, have a government contract for the construction and exploitation of a railway, to be known as the "Southern Railroad" (Ferrocarril del Sur), which, "starting from the port of Barahona, shall pass through Canton Cabral, and from thence to the Bao Stream, along the Peñon road, and crossing the Mena and El Hatico fields, by way of Cabeza de Toro, through the mountain of this name, or the western margin of the River Yaque; from the Bao Stream along the western margin of the River San Juan to the town of the same name, which shall be the terminus of the line, which, however, may be extended to the town of Banica or to the border, crossing the boundaries of the town of Las Matas. A branch line may also be constructed from Canton Cabral to Enriquillo by way of Neiba. The construction of the railroad must be commenced, in the port of Barahona, within twelve months, and completed within five years from the date of the approval of the concession by Congress (May, 1906). The line shall be opened to the public traffic as soon as it shall have been connected with Canton Cabral, and so on, whenever each of the stations mentioned shall have been reached. The concessionaires shall deposit with the Treasury of the Republic the amount of $5,000 American gold as guaranty. The Government constitutes in favor of the concessionaires a guaranty of 6% per annum for every 20 kilometers under exploitation, the value of which is fixed at $10,000 American gold per kilometer. This guaranty shall be in force for the period of 25 years. The term of the contract shall be for 50 years from the date of the approval thereof."

WATER-POWER DEVELOPMENT, RAILWAY.—Kashmir, India.—Writing from Serinagur, the capital of India's Himalayan province of Kashmir, U. S. Special Agent Charles M. Pepper describes an American commercial success, the outcome of which will undoubtedly extend the prestige of goods manufactured in the United States. American adaptability to foreign needs finds a very striking illustration in a country so far away as Kashmir. A great hydro-electric power project undertaken by the State depends for its success on manufacturers in the United States who have been enterprising enough to meet the conditions required, and in consequence have been awarded the contracts for the electrical, hydraulic and dredging plants which are included in the plans. Later it may be within their sphere to secure the contracts for the railway which is part of the general project. Additional interest is given the enterprise because Kashmir is one of the native States of India, and, while within the sphere of British influence, it is independent, and the measures taken for development are entirely of its own initiative. This Government plant will supply power for many purposes, among them the following: For heating the filature basins (2,000 in number) in the State silk factory at Serinagur; oil crushing, woolen, rice and husking mills, and lighting; operating a fleet of dredges, both dipper and hydraulic, that will be employed in deepening the bed of the Jhelum River in order to relieve the country of the annual floods, which cause great damage throughout the valley, and to enable 100,000 acres of rice lands to be reclaimed. These lands are now under water, and cannot be reclaimed till the bed of the Jhelum is lowered 15 ft. for a distance of eight miles from the Wular Lake to the point where it leaves the valley and enters the hills. It is proposed to deepen the outfall of the river by electrically-operated dredges and then to cut drainage channels from the inundated lands into Wular Lake.

The electrical plant now in course of erection has the power-house located near the village of Rampur, about 60 miles from Serinagur. The hydraulic works will be capable of supplying water sufficient to generate 20,000 HP. The water is drawn from the river by suitable controlling works and carried in a part masonry and part wooden flume, 8½ by 8½ ft., for a distance of 6½ miles along the hillside. At this point the flume terminates in a forebay situated 400 ft. above the river below. The generating station is now in course of construction, and 5,000 HP. of the plant is to be erected at once, the balance of 15,000 HP. being put in as demands arise. When the Kashmir State authorized the general project, bids were invited for the whole of the electrical plant. Four bids were received, of which two were by European companies. This contract was awarded to the GENERAL ELECTRIC CO., of New York, which is now engaged in supplying the equipment as called for. Importations are made through the port of Karachi on the Arabian Sea. The contract for the turbines and the whole of the hydraulic plant was let to ABNER DOBLE & CO., of San Francisco, Cal. They will supply the water-power machinery as called for. The award for the entire dredging plant was made to the BUCYRUS CO., of South Milwaukee, Wis., the GENERAL ELECTRIC CO. supplying the accompanying electrical motors, etc. So much importance is attached to the dredging work that a technical representative of the Kashmir State went to Milwaukee to confer with the manufacturers, and the dredges will be built from plans specially drawn. The type is reported to be a modification of that used on the Panama Canal. The dredges are not required to be supplied for two years. The Kashmir representative returned from the United States in September, and the final terms of this contract for the dredging plant have just been approved.

While the railway project is not likely to take the form of contracts for two or three years yet, it is nevertheless worth a little attention now. It involves the cooperation of the Government of India with the Kashmir State. The line will start from the station of Sarai Kala, beyond Rawalpindi, on the Northwestern Railway, which is an India Government line. It will be of broad gage, the same as the Northwestern system, as far as Abbottabad, and this section will be operated by steam power, and will be owned by the Government of India. The Kashmir section will be narrow gage, will be owned by the Kashmir State, and operated by electricity. The estimated cost of the whole line is $10,000,000.

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CIVIL SERVICE EXAMINATIONS

ARCHITECTURAL DRAFTSMAN. — New York, N. Y.—An examination will be held by the Municipal Civil Service Commission, 299 Broadway, New York, on Jan. 29, at 10 p. m., to secure an eligible for the position of Architectural Draftsman, at $1,500 a year. Applications will be received until 4 p. m., Jan. 22. Age limit, 21 years. Frank A. Spencer is Secy.

ELECTRICIAN.—San Francisco, Cal.—The U. S. Civil Service Commission announces an examination on Feb. 20, to secure eligibles to fill a vacancy in the position of Electrician, at $1,000 a year, in the new post-office building at San Francisco, and similar vacancies as they may occur in the Custodian Service throughout the United States. Age limit, 18 to 55 years. Application form, 1052.

ARCHITECTURAL DRAFTSMAN AND BRIDGE DESIGNER.—Albany, N. Y.—The State Civil Service Commission will hold examinations Jan. 26, for positions of Architectural Draftsman at a salary of $15 to $25 a week, and Bridge Designer at $1500 to $2100 a year. The Commission has been unable to secure a sufficient number of eligibles to fill the vacancies in the service in the positions of Architectural Draftsman and Bridge Designer.

EXAMINER OF SURVEYS.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Feb. 6-7, to secure eligibles to fill at least three vacancies next spring in the position of Examiner of Surveys in the General Land Office Service, and similar vacancies as they may occur in that service. The Department states that the entrance salary is $4 a day and traveling expenses, with $3 a day in lieu of subsistence. Promotions are made after satisfactory service to $5 and $6 a day, with the above allowances, and salaries are paid for Sundays and holidays. In the Southern States employment is usually continuous, but in the Northern States persons are frequently dropped during the winter months. Age limit, 20 years. Application form 1312.

ELIGIBLES.—Albany, N. Y.—The following persons qualified for the position of Civil Engineering Draftsman in the New York State Service, at the civil service examination held on Dec. 15, 1906:

Rupert Sturtevant, Weigh-lock Bldg., Syracuse, N. Y.	85.55
Robert M. Fraser, Stanwix Hall, Rome, N. Y.	84.78
Le Van R. Barnes, 41 Prince St., Rochester, N. Y.	84.53
Edmund A. Bonney, 22 William St., Rochester, N. Y.	84.2
LeRoy S. Rickard, 841 Union St., Schenectady, N. Y.	83.55
Arthur B. Chappell, 25 Cambridge St., Rochester, N. Y.	82.88
Lewis M. Bullock, 263 Amity St., Flushing, N. Y.	82.24
Earl C. Hackett, 104 4th St., Troy, N.Y.	81.64
H. Clyde Roe, 156 Melville St., Rochester, N. Y.	79.83
Paul Gordon, Fort Miller, N. Y.	78.34
Edwin J. Sipple, 49 Spring St., Albany, N. Y.	77.64
Charles R. Waters, Phi Delta Theta House, Schenectady	77.23
Henry J. O'Neill, 1534 State St., Syracuse, N. Y.	75.4
John F. Greathead, 229 Wenona Ave., Norwood, Pa.	75.3
Henry P. Darrow, Jr., 65 Albany Ave., Kingston, N. Y.	75.2
John A. O'Donnell, 53 Eagle St., Albany, N. Y.	75.1

MARINE STEAM ENGINEER.—San Francisco, Cal.—An examination will be held by the U. S. Civil Service Commission on Feb. 18, to secure eligibles to fill a vacancy in the position of Assistant Engineer, $1,080 a year, Quartermaster's Department at Large, San Francisco, Cal., Steamer McDowell, and vacancies as they may occur in any branch of the service requiring similar qualifications. Attention is called to the fact that applications for the position of marine steam engineer may be filed at any time, but only those filed prior to the hour of closing business on Feb. 18, with the C[illegible]vice Commission, Washington, D. C[illegible] complete form, will be considered for [illegible]pecific vacancy mentioned. Each appl[illegible]must submit with his application e[illegible]s marine engineer's license or a ce[illegible] of the proper steamboat inspector[illegible]ng that such license has been issued [illegible]. Applicants should give in their [illegible]ions the names and tonnage of th[illegible]ls upon which they have been emplo[illegible]o educational test will be given, an[illegible]ll not be necessary for applicants to [illegible] at any place for examination. Age [illegible]20 years. Application form, 1093.

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INDUSTRIAL NO[illegible]

RAYMOND CONCRETE PIL[illegible]ave been adopted for the foundations of [illegible]w public library to be built in New Orl[illegible] La.

THE E. I. DU PONT DE [illegible]MOURS POWDER CO., 170 Broadway, N[illegible]ork, has taken over the business of the L[illegible] & Rand Powder Co.

THE BLISS ELECTRIC CAR [illegible]GHTING CO. reports that John T. D[illegible]on, formerly with the Consolidated R[illegible]y Electric Lighting & Equipment Co., [illegible] accepted the office of Vice-President of [illegible]ompany.

THE D. F. HOLMAN TRAC[illegible]ER CO. reports the installation of one o[illegible] standard railway tracklayers on the [illegible]lachicola Northern Railroad, where rapid [illegible]gress in tracklaying is being made by it[illegible].

THE MINNEAPOLIS STEEL [illegible]ACHINERY CO. has opened an office [illegible]00 West 11th St., Kansas City, under [illegible] management of Mr. Louis Bendit, for [illegible] sale of its Munzel Gas Engine and S[illegible]tion Gas Producer.

SYRACUSE CHILLED PLOW [illegible]OMPANY elected the following officers for t[illegible]e ensuing year: C. A. Chase, Pres.; W. W. W[illegible]rd, Vice-Pres.; A. K. Hiscock, Vice-Pr[illegible]; Francis Hall, Secy.; James Manning, [illegible]reas.; H. Wiard, Supt.

THE SULLIVAN MACHINERY CO. has received an order for a hoisting engine to be used for sinking the principal shaft and permanent service, at the mine of the Hancock Consolidated Copper Co., at Hancock, Mich. This shaft, when completed, will be 4,000 ft. deep.

D. E. BAXTER AND COMPANY (Inc.), 27 William St., New York, have placed a large order through Robert Way, of Fairbanks & Company, for scrapers and railroad contractors' tools to be shipped to Galatea, Illinois, for the construction of the Harrisburg & Ohio River Railroad, where they have a large force grading.

THE POWER SPECIALTY COMPANY, No. 111 Broadway, New York, in order to handle to better advantage the rapidly increasing demand for the Foster Superheater, has within the past year opened branch offices in Boston, Chicago and Philadelphia. On January 1st it established an additional branch office in St. Louis, No. 1012 Chemical Building.

THE PIQUA BLOWER COMPANY, Piqua, Ohio, is being incorporated with a capital of $50,000. This corporation will take over the interests of the Piqua Foundry & Machine Co., and will make a specialty of positive blowers and gas exhausters, as developed by the latter company in the past two years. As the machinery has met with unbounded success it is necessary to effect this reorganization in order to take care of the large volume of business offered.

THE CROCKER-WHEELER CO. reports that the Williams Construction Co., of Corinth, Miss., has recently placed orders for the following electrical machinery: 1 300-KW. engine type alternating-current generator, 3-phase 2,300 v, 200 r. p. m.; 1 200-KW. engine type direct-current generator, 600 v.; 1 100-KW. direct-current generator, 500 v, and 2 100-KW 3-phase transformers; 1 300-HP., 2,300 v., 600 r. p. m. induction motor; 1 150-HP., 550 v., 600 r. p. m. induction motor. This equipment is to furnish power for the Corinth & Shiloh Electric Railway.

THE BABCOCK & WILCOX COMPANY has bought from The Stirling Consolidated Boiler Company its American property and interests, including all accounts and bills-receivable, has assumed its obligations, will execute its orders and contracts for boilers and appurtenances for installation and use in the United States. The plants thus purchased will be operated in the future by The Babcock & Wilcox Company under the name and style of The Babcock & Wilcox Company (Stirling Department), and will be operated under the direct charge and management of the same gentlemen who have operated the Stirling Consolidated Boiler Company.

EXHIBITORS AT THE ANNUAL CONVENTION OF THE NATIONAL CEMENT USERS ASSOCIATION.

A very extensive exhibit of cement, cement products and cement machinery was held in connection with the second annual convention at Chicago, Jan. 8 to 12. The exhibits filled the Seventh Regiment Armory, and a list of the exhibitors is given below.

CONCRETE MIXERS.

Ballou Mfg. Co., Belding, Mich., the Demorest mixer; Cement Machinery Mfg. Co., Columbus, Ohio, the United machine; Chicago Builders' Specialties Co., Chicago, the Gotham machine; Chicago Concrete Machinery Co., Chicago, the Chicago drum mixer; Clover Leaf Machine Co., South Bend, Ind., the Clover-Leaf mixer; Contractors' Supply & Equipment Co., Chicago, the Smith mixer; Eureka Machine Co., Jackson, Mich., the Eureka mixer; Hartwick Machinery Co., Jackson, Mich., the Schieffler mixer; Hayden Concrete Block Machine Co., Columbus, Ohio, and Wm. B. Hough Co., Chicago, the Ransome mixer; International Fence & Fireproofing Co., Columbus, Ohio, the American mixer; Knickerbocker Co., Jackson, Mich.,

the Coltrin mix Miracle Pressed Stone Co.,
ing & Contrac Co., Chicago, the Chicago
cube mixer; nal Concrete Machinery
Co., Milwauke is., and South Bend Ma-
chine Mfg. Co th Bend, Ind., the Stand-
ard mixer; R. ell Mfg. Co., South Bend,
Ind., the Snell r; Standard Machine Co.,
Kent, Ohio, a S. Concrete Machine Co.,
Detroit, Mich Grant mixer.

P ND CEMENT.

Atlas Port Cement Co., New York,
N. Y.; Chic ortland Cement Co., Chi-
cago, Ill.; E Portland Cement Co., Lit-
tle Village, Lehigh Portland Cement
Co., Allentow ; Marquette Cement Mfg.
Co., Chicago, Non-Staining Cement Co.,
New York; usky Portland Cement Co.,
Sandusky, O Universal Portland Cement
Co., Chicago, Whitehall Portland Cement
Co., Philade Pa.

CONCRETE OCK MACHINERY AND BLOCKS.

Fisher H lic Stone & Machinery Co., Baltimore; plex Concrete Machine Co., Toledo, Ohio; D. Mackay & Co., Chicago; Besser Mfg. Co., Alpena, Mich.; Peerless Brick Machine Co., Minneapolis, Minn.; Ryan Concrete Machinery Co., Cleveland, Ohio; Cement Machinery Mfg. Co., Columbus, Ohio; United Cement Machinery Mfg. Co., Frankfort, Ind.; I Building Block Machine Co., Waterloo, Iowa; The Pettijohn Co., Terre Haute, Ind.; vee Grinder & Furnace Wks., Waterloo, Iowa; Miracle Pressed Stone Co., Minneapolis, Minn.; Winget Concrete Machine Co., Columbus, Ohio; Cement Machinery Mfg. Co., Columbus, Ohio; Concrete Stone & Sand Co., Youngstown, Ohio; Hayden Automatic Block Machine Co., Columbus, Ohio; No-Damp Concrete Block Machine Co., Minneapolis, Minn.; J. A. Noble, Fostoria, Ohio; Stevens Cast Stone Co., Harvey, Ill.; National Concrete Machinery Co., Milwaukee, Wis.; W. W. Birnstock, York, Pa.; Complete Artificial Stone Co., Chicago; National Cement Machine Co., Bay City, Mich.; F. W. Dunn & Co., Chicago; W. E. Dunn & Co., Chicago; Simpson Cement Mold Co., Columbus, Ohio; Cement Machinery Co., Jackson, Mich.; Simplex Mfg. Co., Jackson, Mich.; White Cement Machinery Co., Jackson, Mich.; R. T. Schwab & Sons Co., Milwaukee; Edmondson Block Machine Co., South Bend, Ind.; Brandell Concrete Block Machine Co., Chicago; Concrete Stone Machine Co., Kansas City, Mo.; Anchor Concrete Stone Machine Co., Rock Rapids, Iowa; U. S. Cement Machine Co., Deshler, Ohio; Star Cement Block Machine Co., Dallas City, Ill.; Century Cement Machine Co., Rochester, N. Y.; Ashland Steel Range & Mfg. Co., Ashland, Ohio; Ideal Concrete Machinery Co., South Bend, Ind.; Northwestern Steel & Iron Works, Eau Claire, Wis.; Winner Block Machine Co., Minneapolis; Coltrin Mfg. Co., Jackson, Mich.; Dykema Co., Grand Rapids, Mich.; A. H. Coombs, Chicago; Perfection Block Machine Co., Minneapolis; Popular Block Machine Co., Minneapolis; Sixbey & Grumme Co., Portland, Ind.; South Bend Machine Mfg. Co., South Bend, Ind.; Cement Machinery Co., Jackson, Mich.; H. S. Quick & Co., Indianapolis, Ind.

CONCRETE PIPE, TILE AND FENCE POSTS.

Miracle Pressed Stone Co., Minneapolis, pipe machines; Besser Mfg. Co., Alpena, Mich., sewer pipe and fence posts; Cement Tile Machinery Co., Waterloo, Iowa; National Concrete Machinery Co., Milwaukee, Wis., posts; White Cement Machinery Co., Jackson, Mich., posts; Luck Cement Post Co., Aurora, Ill.; Never-Rot Post Co., Westerville, Ohio; H. S. Quick Mfg. Co., Indianapolis, Ind., posts; American Cement Roofing Co., Columbus, Ohio; Diamond Cement Shingle Machine Co., Deshler, Ohio.

CONCRETE BRICK MACHINERY.

Queen City Brick Machine Co., Traverse City, Mich.; Stumpf & Richards, Milwaukee, Wis.; Wettlaufer Brothers, Buffalo, N. Y.; Miracle Pressed Stone Co., Minneapolis; Cement Brick Co., Port Huron, Mich.; Peerless Brick Machine Co., Minneapolis; South Bend Machine Mfg. Co., South Bend, Ind.

STEEL REINFORCEMENT.

American Steel & Wire Co., Chicago, woven fabric; American Wire Fence Co., Chicago, woven fabric; Chicago Builders' Specialties Co., Chicago, twisted bars, expanded metal, studding, etc.; Clinton Fireproofing Co., Clinton, Mass., and Chicago, netting or fabric, lathing and welded stirrups; Expanded Metal & Corrugated Bar Co., St. Louis, Mo.; Northwestern Expanded Metal Co., Chicago; Youngstown Iron & Steel Roofing Co., Youngstown, Ohio, expanded metal.

GAS ENGINES.

International Harvester Co., Chicago; South Bend Machine Mfg. Co., South Bend, Ind.; New-Way Motor Co., Lansing, Mich.; Automatic Concrete Tamper Co., Peoria, Ill.

MISCELLANEOUS.

Concrete Stone & Sand Co., Youngstown, Ohio, the Pauly machine for monolithic walls; Geo. S. Ormsby, Xenia, Ohio, tools for laying concrete blocks; Automatic Concrete Tamper Co., Peoria, Ill.; Miracle Pressed Stone Co., Minneapolis, tools for concrete workers, air tamper; P. F. Connolly, Sioux Falls, S. Dak., trowels for cement; Garden City Sand Co., Chicago, cement coating and waterproofing compositions; Standard Waterproofing Co., Indianapolis, composition; Simpson Cement Mold Co., Columbus, Ohio, waterproofing; Barrett Mfg. Co., Chicago, pitch compound for waterproofing; Ironite Co., Chicago, waterproofing wash; Schieffler & Besser, Alpena, Mich., cement pulverizer; Indiana Road Machine Co., Fort Wayne, Ind., stone crusher; Blaw Collapsible Steel Centering Co., Pittsburg; Concrete Edge Protector Co., Detroit, Mich., steel-edged curling; Arthur Koppel & Co., Chicago, industrial railways, cars, etc.; Sterling Wheelbarrow Co., Milwaukee; Chase Foundry & Mfg. Co., Cleveland, Ohio, drying racks and cars; A. C. McClurg & Co., Chicago, books on cement and concrete; Avery Scale Co., North Milwaukee, Wis., automatic cement weighing machine.

TRADE PUBLICATIONS.

PULLEYS.—A. F. Bartlett & Co., Saginaw, Mich. Paper; 3¼ × 6 ins.; pp. 6; illustrated.

This folder gives rules for calculating sizes and speeds for pulleys and also gives prices for wood split pulleys.

CARS.—Sheffield Car Co., Three Rivers, Mich. Paper; 6 × 9 ins.; pp. 96 + 16; illustrated.

Light cars for track use and hand operation are given attention in this publication. These include velocipede cars, dumping cars, push cars, logging cars, and mining cars.

GAGES.—The Bristol Co., Waterbury, Conn. Catalogue No. 44. Paper; 8 × 11 ins.; pp. 28; illustrated.

Recording pressure gages are illustrated and described, and a large number of new charts are shown whose increments are uniform and which are therefore more accurate and easier to read than the old ones.

MACHINISTS' SUPPLIES.—Montgomery & Co., 105-107 Fulton St., New York City. Catalogue No. 24. Paper; 4¼ × 6¼ ins.; illustrated.

This folder is a price-list of files, taps, drills, set screws, cap screws, etc.

TUBULAR WELL SUPPLIES.—Cook Well Co., St. Louis, Mo. Catalogue No. 11. Paper; 4½ × 7¾ ins.; illustrated.

The Cook system of tubular wells is described and parts and supplies listed, with price. These wells are of the driven type.

PUMPS.—The Goulds Mfg. Co., Seneca Falls, N. Y. Paper; 4 × 7½ ins.; pp. 32; illustrated.

Several different styles of single-acting triplex plunger pumps, rotary fire pumps, centrifugal pumps, vacuum pumps, etc., are listed with their principal dimensions.

VALVES.—The D. T. Williams Valve Co., Cincinnati, O. Paper; 3½ × 6¼ ins.; pp. 12; illustrated.

This pamphlet relates particularly to regrinding valves of different kinds, with lists of prices, sizes, etc.

TRACTION ENGINES.—Avery Mfg. Co., Peoria, Ill. Paper; 7 × 6½ ins.; pp. 6; illustrated.

The Avery engines are shown in use for plowing, heavy hauling work, and hauling a ditching machine for canal excavation.

AUTOMATIC BLOCK SIGNALS. — Union Switch & Signal Co., Pittsburg, Pa. Paper; 6 × 9 ins.; pp. 14; illustrated.

Reprint of an article on the block-signal system of the Long Island R. R. electric terminal lines, from a technical journal.

HANGING CONCRETE STAIRWAY.—Samuel H. French & Co., Philadelphia, Pa. Paper; 6½ × 5 ins.; pp. 4; illustrated.

This is an illustrated description of an interior hanging stairway erected of Dexter Portland cement in a building near Pittsburg.

METEOROLOGICAL INSTRUMENTS. — Queen & Co., northwest corner Eighth and Arch Sts., Philadelphia, Pa. Paper; 6½ × 10 ins.; pp. 170; illustrated.

Thermometers and meteorological instrument are illustrated and described in this catalogue. In connection with the descriptions of these instruments much valuable information regarding their construction and use, is given.

ENGINES.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1510. Paper; 8 × 10½ ins.; pp. 12; illustrated.

Direct-connected Corliss engines as made by the Allis-Chalmers Co., for heavy duty, are given attention in this publication. These engines were originally designed by Mr. Edwin Reynolds and are widely used in electric power and lighting stations.

TRANSMISSION.—The Rockwood Mfg. Co., Indianapolis, Ind. Paper; 5 × 9¼ ins.; pp. 84; illustrated.

This catalogue will appeal to engineers, machinists, millwrights, and operators of machinery; it contains much of value on the transmission of power by friction gearing. Paper and iron frictions, and apparatus for engaging and controlling friction gearing, are illustrated and described.

AIR BRAKES.—Westinghouse Traction Brake Co., Pittsburg, Pa. Paper; 8¼ × 10¾ ins.; pp. 12; illustrated.

This bulletin contains a description of the straight-air brake equipments made by the Westinghouse Traction Brake Co. The arrangement of the pipes connecting the different apparatus and the system of wiring employed in the various equipments, are shown for three different cases.

STEAM SUPPLIES.—James McCrea & Co., 67 West Washington St., Chicago, Ill. Paper; 7½ × 10¾ ins.; pp. 24; illustrated.

Pipe repairs and steam specialties form the subject of this catalogue. Under these heads are taken up clamps, steam traps, feedwater regulators, flue-cleaner rods, boiler-tube cutters, gasket and washer-cutters, and drilling and boring machines.

HEAD GATE HOISTS.—The Dayton Globe Iron Works Co., Dayton, Ohio. Paper; 6 × 9 ins.; pp. 24; illustrated.

This catalogue gives an illustrated description of various types of hoisting mechanisms for head gates, waste gates, etc., in water-power development.

SCRAPER EXCAVATORS.—H. Channon Co., Market and Randolph Sts., Chicago. Paper; 8 × 10¾ ins.; pp. 8; illustrated.

This machine consists of a traveling derrick, handling a scraper-bucket swung from the boom. It is in use on a number of construction works. Detail descriptions are given; also price lists of hoisting engines.

REINFORCED CONCRETE BUILDING.—The Whitehall Portland Cement Co., Philadelphia, Pa. 12½ × 9½ ins.; 14 unbound photographs.

These photographs show the various stages of progress in the building of a reinforced concrete printing office in Cincinnati, 68 by 335 ft. in plan and eight stories high. Whitehall cement was used throughout the work.

RADIAL REAMERS.—Hanna Engineering Works, 820 Elston Ave., Chicago, Ill. Paper; 8 × 11 ins.; pp. 4; illustrated.

These reamers are driven by an electric motor and provided with wheels so that they can readily be moved about the shop. They are so balanced that they do not need to be fastened down to the floor.

COAL CHUTES.—Williams, White & Co., Moline, Ill. Paper; 7 × 9¾ ins.; pp. 22; illustrated.

Coal chutes designed by this company for coaling locomotives are described. Both stationary and movable chutes are built, and the catalogue contains several line cuts, with dimensions of standard designs.

GRAPHITE.—Joseph Dixon Crucible Co., Jersey City, N. J. Paper; 6 × 9 ins.; pp. 22; illustrated.

Under the title of "Air Compressor Lubrication," this catalogue describes the advantages of Dixon's Ticonderoga flake graphite as a cylinder lubricant. This graphite will not carbonize or become ignited and will not give off explosive vapors.

MACHINERY.—Williams, White & Co., Moline, Ill. Catalogue No. 7. Paper 7 × 9¼ ins.; pp. 171; illustrated.

This is a general machinery catalogue describing power shears, drop and riveting hammers, bending machines, gang boring machines, hydraulic presses, punches, taper rolling machines, bulldozers, etc. These machines are made in many different sizes for all classes of work.

BOILER APPLIANCES.—James McCrea & Co., 67 W. Washington St., Chicago, Ill. Paper; 4 x 6¾ ins.; pp. 12; illustrated.

The Rowe boiler feed regulator is attractively shown and described in this booklet. It is operated by a float controlled by the height of water in the boiler and, as a safeguard, is equipped with a low-water alarm. Each regulator is tested to withstand 300 lbs. hydraulic pressure.

COMPRESSORS.—Ingersoll - Rand Co., 11 Broadway, New York City. Catalogue X36. Paper; 6 × 9 ins.; pp. 40; illustrated.

Steam and power-driven air compressors are here given attention. Their important parts are described in detail, and illustrations are given showing the three following types: the Meyer valve type; the "Imperial" Corliss, and the "Imperial" type ten-belted machine.

HOISTS.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin 1506. Paper; 8 × 10½ ins.; pp. 16; illustrated.

Electric hoists for mining work, equipped with single drums and with double drums are given attention in this bulletin. For the former either alternating or direct-current motors are used, ranging in horse power from 15 to 75, and for the latter, alternating or direct-current motors from 30 to 150 HP., are employed.

POWER APPARATUS. — Western Electric Co., Chicago, Ill. Paper; 10¾ × 7¾ ins.; pp. 24; illustrated.

This publication is devoted chiefly to a description of the Hawthorne Works of the company, located at the extreme west of the City of Chicago. The last pages, however, show several of the large direct-current generators, alternating-current generators, and a motor-generator set built by the Western Electric Co.

HOISTS AND CRANES.—Sprague Electric Co., 527-531 West 34th St., New York City. Flyer No. 225. Paper; 4 × 8 ins.; pp. 12; illustrated.

Illustrations and descriptions of hoists, carriages, and cranes built by the Sprague Electric Co., are presented in this folder. On the last page, the old way and the new way of hoisting are shown—in other words, there is pictured a hand-operated hoist in contrast to an electric-operated hoist.

CONTRACTORS' EQUIPMENT.—Henry J. McCoy Co., New York. Boards; 6 x 9¼ ins.; pp. 599; illustrated.

This is a very complete catalogue of all manner of equipment used by contractors, mines, mills and railways. Its usefulness is increased by an exhaustive index.

RAILWAY SUPPLIES.—Arthur Koppel Co., Koppel, Beaver Co., Pa. Album 1907. Paper; 6 × 4½ ins.; pp. 28; illustrated.

This album contains a number of views showing the different uses of the railway supplies manufactured by the Arthur Koppel Co. These supplies comprise industrial, narrow and standard gage railway materials such as portable and permanent track, rails, switches, frogs, turntables, steel and wood cars.

ELEVATORS.—The Portland Co., Portland, Maine. Bulletin No. 21. Paper; 8 × 9½ ins.; pp. 4; illustrated.

Plunger elevators for passenger and freight service are here shown, and specifications are given for these two types. In cases where the city water pressure is not great enough, not available, or too expensive for ordinary elevator service, the Portland Co. is prepared to install a complete pumping plant operated either by steam or electricity.

CONCRETE ROOFING TILES.—Hunkins-Willis Lime & Cement Co., St. Louis, Mo. Paper; 6¼ × 3½ ins.; pp. 12; illustrated.

These Bonanza tiles are of large size, making but few joints, and are specially intended for roofs of railway stations, factories, foundries, etc. A long list of plants using them is given in the pamphlet.

COLLAPSIBLE STEEL CENTERING.—Blaw Collapsible Steel Centering Co., Pittsburg, Pa. Paper; 6¼ × 4½ ins.; pp. 20; illustrated.

This catalogue gives illustrated descriptions of the centering made by the company to be used in the forming of sewers, culverts, cast concrete pipe, etc. It also gives photographs of some of the completed work after the centers are drawn.

SASH OPERATING APPARATUS.—Lord & Burnham Co., Irvington-on-Hudson, N. Y. Paper; 8 × 10 ins.; pp. 26; illustrated.

The catalogue is devoted to a description of the apparatus manufactured by this company for opening and closing windows. It contains several illustrations showing apparatus installed in stores and other buildings, besides detail illustrations of the various parts of the apparatus.

MACHINE SHOP EQUIPMENTS.—Niles-Bement-Pond Co., 11 Broadway, New York City. The Progress Reporter. Paper; 9 × 12 ins.; pp. 14; illustrated.

The December number of this publication is devoted to the machine shops of the Midvale Steel Co., at Nicetown, Pa. The different departments in these steel works are briefly described and a number of full-page illustrations are given showing the many large machine tools supplied them by the Niles-Bement-Pond Co.

STEAM ENGINES.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1,503. Paper; 8 × 10½ ins.; pp. 12; illustrated.

Direct-connected Reynolds-Corliss engines form the subject of this publication. They are designed primarily for driving electrical and other high-speed machinery and have been on the market about three years. The illustrations and descriptions of the different parts of these engines give an excellent idea of their construction and adaptability.

TRACKLAYING MACHINERY.—D. F. Holman Railway Tracklayer Co., 1749 Railway Exchange, Chicago. Paper; 6 × 9 ins.; pp. 16; illustrated.

The pamphlet describes and illustrates the operation of tracklaying with the Holman machine, which has been employed in laying about 10,000 miles of track on over 100 railways in all parts of the country. Several testimonials are given, with lists of railways and contractors using the machine.

PAINT MACHINERY.—Charles Ross & Son Co., 148-156 Classon Ave., Brooklyn, N. Y. Catalogue No. 5. Paper; 6 × 9 ins.; pp. 64; illustrated.

Flat stone paint and color mills, water-cooled white lead and fine color mills, conical stone mills, three-roller mills for grinding carbon paper and typewriter ribbon, printing ink and chocolate, and paint and ink mixers, are described, besides kneading machines, fan mills and other machinery of this class.

WELL SCREENS.—E. E. Johnson, St. Paul, Minn. Paper; 3¼ × 6½ ins.; pp. 8; illustrated.

These screens are formed of specially wound wire of such section the coils interlock and leave a continuous spiral opening or inlet slot 0.004-in. to 0.03-in. wide on the outside and a series of circular holes on the inside. A table shows the lineal feet of inlet opening per foot of screen for different diameters. Packers and blocks for expanding packers are also shown.

ROCK DRILLS.—Ingersoll-Rand Co., 11 Broadway, New York City. Paper; 5½ × 3¼ ins.; pp. 20; illustrated.

This recently issued leaflet announces that over 80,000 Ingersoll-Rand rock drills have been built and sold. The leaflet also sketches the several standard types, with their accessories.

TRACK DERAILS.—Hayes Track Appliance Co., Geneva, N. Y. Paper; 8 × 10½ ins.; pp. 8; illustrated.

The Hayes lifting derail in different styles is illustrated by half-tone and line engravings, which illustrate the operation of the device. Two views show a comparison of a split-switch derail and a Hayes derail in time of snow.

GAS ENGINES.—Western Gas Engine Co., Los Angeles, Cal. Catalogue C. Paper; 9 × 6 ins.; pp. 62; illustrated.

Western engines for all power purposes are given attention in this publication. These engines are operated by distillate, naphtha, gasolene or alcohol, natural or producer gas. They are now made in sizes up to 180 HP., and it is expected units of 360 HP. will soon be on hand.

ELECTRIC EQUIPMENT.—Western Electric Co., 259 South Clinton St., Chicago, Ill. Paper; 10¾ × 7¾ ins.; pp. 24; illustrated.

This booklet contains illustrations and descriptions of the Western Electric Co.'s new plant at Hawthorne, Ill. Heretofore this company has confined itself to the manufacture of telephone equipment, but with the new plant in operation heavy power apparatus and switchboards will also be built.

WIRE LATH. Clinton Wire Lath Co., Clinton, Mass. Boards; 6 × 9 ins.; pp. 52; illustrated.

In addition to describing the advantages of the Clinton Wire Lath this peculiarly attractive catalogue is valuable as a handbook on lathing and plastering. It contains directions for the construction of decorative, ceiling and cornice work, solid filled and hollow partitions, exterior walls, false columns and other such details where a metal mesh reinforcement or protection can be used. In typographical execution it is superior to the ordinary catalogue.

CONCRETE PILE CONSTRUCTION.—Raymond Concrete Pile Co., Chicago, Ill. Paper; 6 × 8¾ ins.; pp. 76; illustrated.

This is a new and enlarged edition of a catalogue describing the Raymond system of concrete piling. The pile is formed by first driving a conical steel pile consisting of a separate steel core and shell and then removing the core and filling the shell with concrete. By this means the concrete itself is not subjected to the shock of driving.

ENGINES.—Allis-Chalmers Co., Milwaukee, Wis. Bulletin No. 1501. Paper; 7¾ × 10½ ins.; pp. 20; illustrated.

Belted Corliss engines of the "Reliance" pattern are illustrated and described in this bulletin. These engines are designed to meet the demand for machines which will occupy less floor space and run at somewhat higher speeds than are usual in Corliss practice; they are therefore specially intended for driving electric generators and other fast running machinery.

CONCRETE BLOCK MACHINERY. Century Cement Machine Co., Rochester, N. Y. Paper; 8 × 10 ins.; pp. 66; illustrated.

This catalogue is a description of the hand-press Hercules Concrete Stone Machine. This machine has been on the market for some four years and has been revised and improved each year as experience showed previous error until now the makers claim a perfect machine of its type. The catalogue contains photographs of many buildings which have been erected out of this block.

CONCRETE BLOCK MACHINERY.—Fisher Hydraulic Stone & Machinery Co., Baltimore, Md. Paper; 12 × 9¼ ins.; pp. 34; illustrated.

The special feature of this concrete block machine is the hydraulic system of tamping, by means of which a continuous mechanical tamping is brought to bear on the block in the making. The company claims that this jarring, pounding action is very effective in settling the aggregates and is superior to a steady pressure which tends to condense the surface only. List prices of different size machines are given together with photographs of the various stone which have been cast in the machine.

RAILWAY AND MUNICIPAL SUPPLIES.—The Railway & General Engineering Co., Nottingham, England. Paper; 8½ × 11 ins.; pp. 67; illustrated.

This pamphlet describes machinery and appliances of a very varied character. Switches, frogs and appliances for street railway work; drains, inlets and traps or catch-basins for streets and street railway track; ventilating manhole covers and columns for sewer work, and a line of gas engines and supplies are included. Two interesting specialties are a machine for grinding the heads of street railway rails and a machine for heating and mixing the materials for tar-macadam paving.

TAR TREATMENT FOR ROADS.—Barrett Mfg. Co., Chicago and New York. Paper; three pamphlets; 6 × 9 ins. and 9 × 6 ins; pp. 8, 20 and 24; illustrated.

The first of these relates to the use of tar on macadam streets at Jackson, Tenn., and contains a report of the U. S. Department of Agriculture on this work. The second describes in general the advantages and use of the company's treatment, and the third consists mainly of half-tone engravings of roads, streets and boulevards on which the treatment has been applied. The road is finished with a coating of tarvia (a coal-tar composition), covered with screenings and then well rolled, making a practically dustless surface and one which will resist the "picking-up" effects of automobile traffic.

BITULITHIC PAVEMENTS.—Warren Bros. Co., Boston, Mass. Two pamphlets, 6 × 9 ins.; pp. 16 and 22, respectively; illustrated.

One of these pamphlets is entitled "Five Years Afterwards," and is made up of testimonials from city officials of various cities where bitulithic pavement has been laid. The other has the somewhat startling title, "Aroused People Rout Asphalt Trust; March on City Hall and Demand Bitulithic Pavement for Principal Avenue of Atlantic City, N. J." It is made up of an account of the struggles for and against the paving of Atlantic Ave., Atlantic City, with bitulithic, at an estimated cost of $266,550. The avenue in question is 74 ft. wide from curb to curb, and 4 miles in length, extending the entire length of the city. Both pamphlets are illustrated.

TRANSMITTING MACHINERY.—Geo. V. Cresson Co., 141 Liberty St., New York City. Cloth; 6½ × 9½ ins.; pp. 350; illustrated.

This catalogue has been gotten out in library style and treats of shafting, friction clutches, pulleys, flexible couplings, the continuous and the multiple systems of rope transmission, iron and steel gears, mortise gears, and rawhide gears, crushing and concentrating machinery, and roll grinders both wet and dry. Considerable information of value, aside from the illustrated descriptive matter on the power-transmitting machinery manufactured, is given in this book.

STEAM AND ELECTRIC SHOVELS.—The Vulcan Iron Works, Toledo, Ohio. Paper; 9 × 6 ins.; pp. 40; illustrated.

The "Little Giant" crane type of shovel is dealt with in this pamphlet, the dimensions and other particulars being given for machines of various sizes. The illustrations show machines with traction and railway wheels employed on works of various kinds, including railway grading, ditching, trenching, etc. Two specially interesting classes of machines are electrically-operated shovels for placer mining and electric railway work, and a steam shovel used in tunnel work.

CARD INDEX RECORDS FOR RAILWAYS.—Yawman & Erbe Mfg. Co., Rochester, N. Y. Paper; 7 × 9 ins.; pp. 56; illustrated.

This attractive pamphlet describes the application of the company's card index and filing system to various departments of railway service, but it would be much more easily read and understood if it had been printed in larger type and divided into paragraphs. The records include such matters as financial matters, station statistics, employees, land and taxes, tickets and accounts, freight rates and freight claims, locomotives, cars and car movements, maintenance-of-way work, bridges and bridge inspections, boiler inspections, and various others. There is a list of about 30 important railways which employ this system for various purposes.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 28.

PUMP.

Asbury Park, N. J.

Sealed proposals, addressed to the undersigned, will be received until 12 o'clock noon of Monday, January 28, 1907, at the office of the Department of Water and Sewers, 711 Asbury avenue, Asbury Park, N. J., for the erection complete of one pump capable of delivering two and one-half million gallons per 24 hours against a pressure of 75 pounds.

Specifications may be obtained at the office of the department.

The right is reserved to reject any or all bids.

JOHN L. [illegible]FIN,
Supt. Dept. of Water and Sewers.

Jan. 15, 1907.

3-2t

OFFICE OF THE COMMISSIONERS, D. C., Washington, D. C., Jan [illegible] 1907.—Sealed proposals will be received at this office until 12 o'clock noon, Feb. 2, 1907, for furnishing 3, 4, 6, and 12-inch cast-iron water pipe. Specifications and blank forms of proposal may be obtained at room 43, District Building, Washington, D. C. HENRY B. F. MACFARLAND, HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 3-2t

SITUATIONS OPEN

WANTED—By an out of town structural company: An assistant to superintendent of erection. Must have good experience and be competent to run several jobs in good shape. Apply by letter to S. W. WILLIAMS, Room 28 Imperial Bank Building, Montreal, Que., Canada. 3-1t

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WANTED—Several detailers on bridge and structural work to leave the city; permanent positions and good wages to satisfactory men; also an all-round estimator and designer, competent to take charge of work. Apply by letter to S. W. WILLIAMS, Room 28 Imperial Bank Building, Montreal, Que., Canada. 3-1t

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WANTED.—At once two experienced Draftsmen on General Dredge Work or Hoisting Machinery. Apply "BOX 882," Richmond, Va. 3-1t

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WANTED.—By a first-class general building contracting firm, handling large contracts, a manager for its New York Office. Must be a man of ripe experience in the same position for another firm and wide acquaintance among architects and the general building trades in New York and vicinity; and must be practical and understand the construction of buildings as well as the computing and putting together of general estimates for buildings. Must be of good address and be capable of successfully soliciting building contracts from architects and owners. Position open in thirty days or less. High class position for right man. Address "G. B. 3," Engineering News, New York. 3-3t

Miscellaneous Wants

WANTED—Position as general sales manager, New York representative or any other requiring initiative, business ability and technical knowledge, where there is an opportunity to ultimately become interested or member of company, by graduate civil engineer, Assoc. M. A. S. C. E. with four years' practical experience and at present and for the last seven years engaged as New York sales manager for a large hoisting machinery manufacturing company, now doing $200,000 worth of business yearly. Willing to go anywhere, but metropolitan acquaintance very valuable. Change desired solely for financial reasons. Address "F. B. 33," Engineering News, New York. 3-1t

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